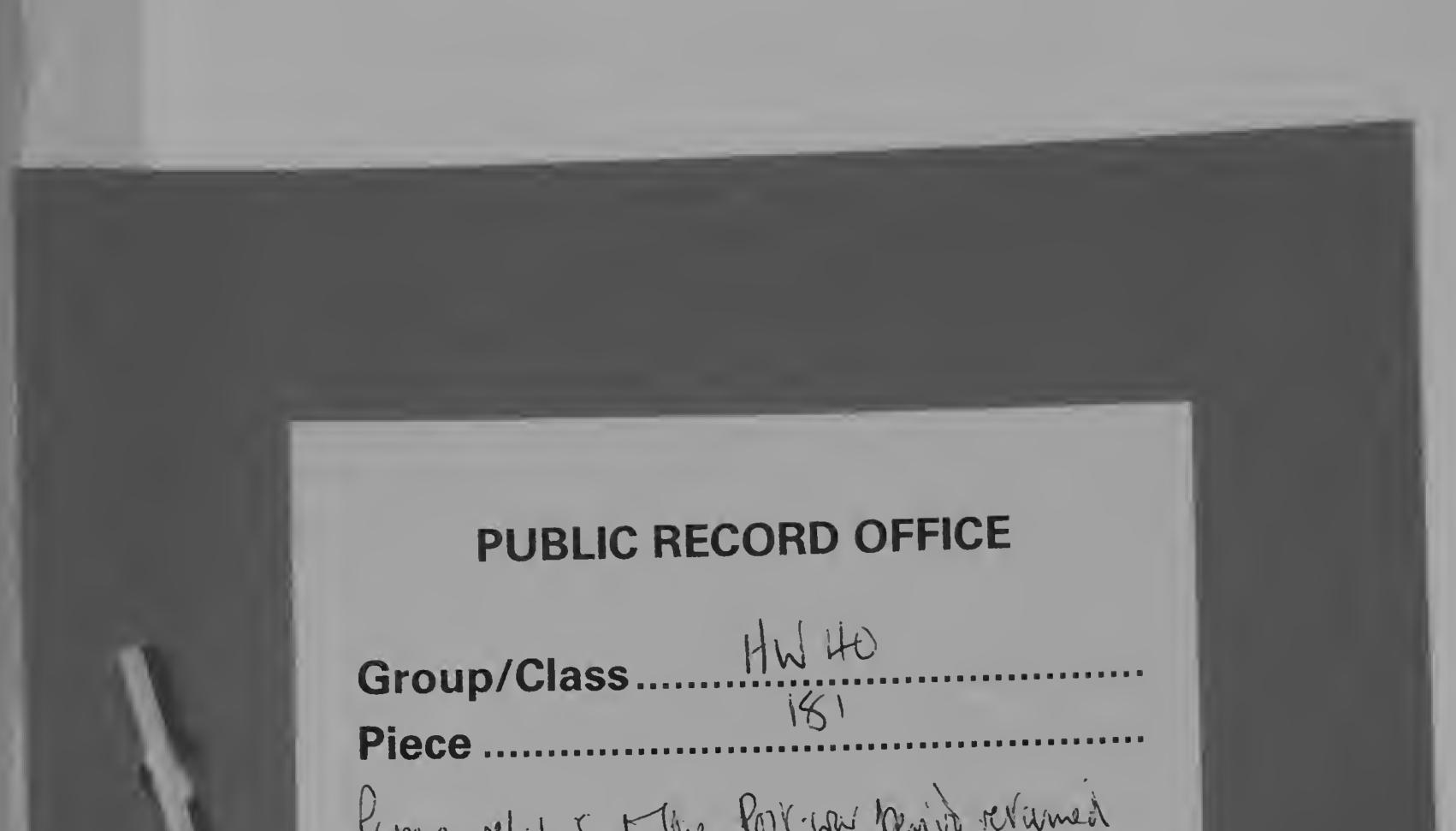
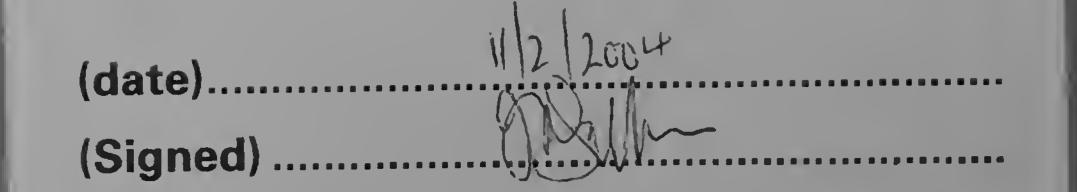
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20 Grosvenor Square.

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17 September 1947.

MEMORANIUM FOR: Director, L.S.I.C. (Attention: TICOM). Interrogation of Selchow. Subject:

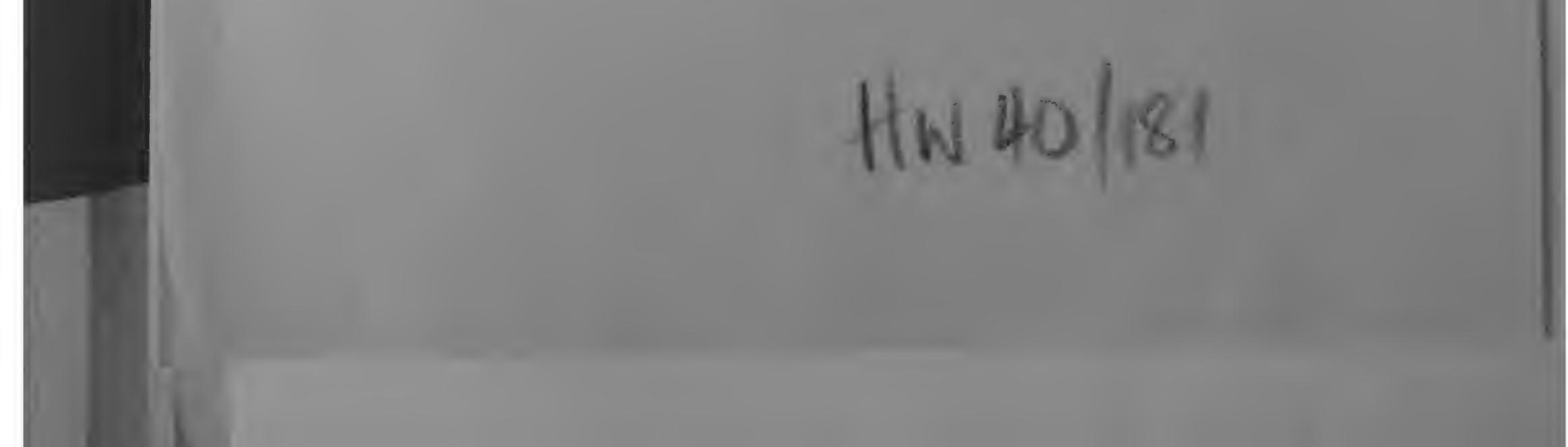
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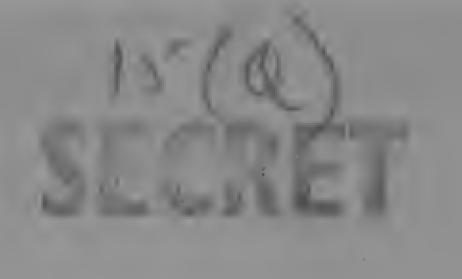
for your information. If you consider further interrogation of SELCHOW, I will so inform the authorities at ASA Europe.

William Hartet

WILLIAM G. BARTLETT, Lt. Col., GSC., U.S.Army, Senior U.S. Liaison Officer.







J September 1717

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TO: IUTO Detection t c/o Hiltory Attache London, En Lond U.vel Floot Port Office No. 100 (to be passed to TICOT)

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infort the concerning Selekov of the German Hinterry of Forther Hill in, the inclosed report is forthread as a problem by interror there is a loss of a Selekow connected by a representative of Army Security Agents, a ore it francient as Main, a september 1947.

2. It is remetted to this Headculrters is invised more arther interroption of Selenow is delived by TIGO, and if so, that specific questions be for area to this Head with its for use in the interrograph.

3. A copy of the inclosed report are build former as To hear a surplus Arency, We mington and the algency far also how required to her and the intercord of the deliver.

Incl

Report of Interrog. ul m

Di TT. MLITA Lt. Colonal, Si. and Corp. Chief



TICOL:/ I-208

INTERROGATION REPORT ON KURT SELCHOW, FORMER HEAD OF THE PERS ZS DEPARTMENT OF THE GERMAN MINISTRY OF FOREIGN AFFAIRS.

Attached is a report on the interrogation of Gesandter Ministerdirigent Kurt SELCHOW, former head of "Pers ZS", the cryptobureau of the German Ministry of Foreign Affairs, carried out at Frankfurt-am-Main on 2nd September, 1947, by Captain Mary C. LANE of A.S.A. Europe.

2. The report is of general historical interest, and SELCHOW claims to have no technical knowledge. For detailed interrogation report on the work of his department, including the personnel mentioned by

him on page 10, see Ticon/I-22.

TICOM 27th October, 1947.

No. of Sheets: 3 Copy No: 11.

Distribution :-

L.S.I.C. ${\rm T}_{\bullet}$ 1. S. 2. 3. Η. Brigadier Tiltnan. 4. 5. L. Z_{\bullet} 7. H. 71 8. R.1 for Dr. Morgan.

9-10. Z.86. 11. L.91. 12-15. Ticon Files.

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INTLEROGATION REPORT OF MURI CLICKON, DOFIELD FIID OF THE PIKE ZE DIPLATING OF THE GIVEN HILLEY OF TOULIGH

Personal Data:

GELCHCH. Surrance: £., Kurt Richard. Christian Marue: ΰ. Nor.e. diases: C. Date and Place of Birth: 28 May (886. Oppuln, Uppur Billela, Gurany. 1. Rationality claimed: Gorman. 0. Tormar koad, with rears of Guissource Maintage Cocupation: f. dirigont, of Gryptoburcau, Ger.a. Hinistry of

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Signal Officer did not agree with this statement and during the war such of the work done by the Army was diplomatic. Directly after World War I. however, SELCHOW entered the German Hinistry of Foreign Affairs where he organised the crypto-bureau. He brought with him into the crypto-bureau several soldiers when he had known during the war, viz: SCHAUFFLER, PASCILL. ZASTROW, BRANDES, HOFFMANN and KUNZE. He remained head of the cryptobureau until the defeat of Germany in May, 1945. After the defeat of Gormany, SELCHOW remained for two years in the French Zone of Germany at Weiler/Vorarlberg, Swabia.

In mid-April, 1947, SELCHOW moved to Wedel bei Hamburg, British Zone of Germany, where he new lives with his wife and daughter in the heuse of a relative. He is employed in a merchant firm of a relative in Wedel, and his daughter is employed in a factory owned by a relative in Wedel, His wife is ill. SELCHOW expressed the desire to move with his wife and daughter to the American Zone of Germany, preferably te Marburg where he stated, SCHAUFFLER, PASCHKE and KUNZE now live. He has, however, no means of obtaining the necessary permission of Hilitary Government to come inte the American Zone and procure a residence.

I Chif Verw

Contact with Foreign Governments since End of War: SELCHOW stated that although he lived for two years in the French Zone of Germany after the ond of the war he had not spoken with any French authorities concerning his previous occupation. He stated that when the French had discovered on his identification papers that he had been the head of the Crypto-bureau of the German Ministry of Foreign Affairs they stated that all the crypto-systems had changed and hence they were not interested in questioning him. Once, hewever, he had learned that for some time it had been thought by the French that his name was a cover-name for a system (the Selchowsysteme). SELCHO. stated that he had never been questioned by the British during his residence in Wedel concerning his previous occupation.

Contact with Former Colleagues! SELCHOW stated that he was in frequent comunication by letter with other former members of the German Ministry of Foreign Affairs, particularly those who had been his colleagues during the entire period of his service with the Ministry of Fereign Affairs. LS stated above, PASCHKE, SCHAUFFLER and KUNZE were said to be living in Marburg; HOFFMANN, Ernst, Former head of the Funkbuero and Fernschreibstelle of the crypto-bureau was now living in Minden/Westfalien. Dr. HAUTHAL was living at Alten Hohenau/Post Griesstaett/Inn. He stated that Dr. ROY, who had been head of the Verwaltungsbuero of the crypto-bureau had been for some time after the war in a prison camp at Halle/Saalo, but was now a prisoner in Russia and had not been heard from for some time.

Notes on History of Crypto-bureau of Ministry of Foreign Affairs: SELCHOW stated that he was familiar with the history of the crypto-bureau of the Ministry of Foreign Affairs from 1919 to 1945. Such a bureau had existed within the Ministry of Foreign Affairs during World War I, but chiefly as an enciphering and encoding group. In 1919, when he became leader of this group, he introduced the system of dividing work upon foreign codes and ciphers into sections for the various countries and selected as leaders of these sections those men such as PASCHKE, KUNZE and SCHAUFFLER who had been knew. him during the War. The crypte-bureau had been before 1919 and continued to be throughout World War II subordinated to the Fersenalabteilung of the Ministry of Fereign Affairs.

The outline of the chain of command within the Ministry and the organisation of theorypto-bureau as he described it is as follows :-

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SELCHOW stated that during the latter years of World War II the cryptebureau of the Ministry of Foreign Affairs had expanded until it comprised between 400 and 500 persons, including both men and women. However, it had up to that time remained relatively small and at the beginning, the group had consisted of only fourteen or fifteen persons.

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At the end of the war the crypto-bureau had been forced by bombing to leave Berlin-Dahlen and to move successively southward. This accounted for the presence of SELCHOW near Weiler at the end of the war and for his continued residence in the French Occupied Zone of Germany.

Relation of SELCHON to OKN/Chi and to the Forschungsant: SELCHON MAD particularly anxious to clear his record of any voluntary relation with the National Bocialist Party. He stated that from the very beginning of hit diplomatic career he had been interested in a closer co-operation of the various countries of Europe with one another, on schething of the same plan new advocated by CHURCHILL. He had not been amilitarist, nor had he interested himself in military systems, making it a strict policy within the Ministry of Foreign Affairs that only systems of a diplomatic nature should be lealt with. Until 1933 the crypto-burcau of the Hinistry of Foreign Affairs had had the entire field of diplomatic ciphers to itself. The cryptographic systems of the small Furces of ther countries word handlas by the Mohrmannt. With the advent of HITTER, however, the Luftfahrtministerium under GOLRENG ener ched. upon the field of the cryptchurcau of the Hinistry of Fireign Affire. SHORE statel that he himself at this time triched to resign alree ... all a spectar That docver with the Mational Socialist involunt. He was provide a reasin, however, by ven BULOW who was until 1938 Sucret ry f the Mirlitry for reland iffairs. Von BUICH, who was also a firm opponent of M tiers 1 2 clothing, who extremely envious that the crypto-burch of the limittry of " retra off int remain unternished by Rotingal Eccipies on that it as all'in a possert. to the new covernet. ELORG i therefore reaching with the crypte-sure of but cutoide the Mathemal Socialist Forty until yor. BULG ". dette in 1930. Men RIDLENTROP sector hood of the limistry of Lording iffeirs a grout will be verer Whe taken from BILOHOV, since v.r. RIDBE TROP with not truct him. His supervising capicity was restricted to the of station which with the plasing of messages to the from the picture and the the the high of the Electricity of the synthese ffreign countries. Is we from to j in the Berty is 1911 has tors as active part in its policy. Doring the me yours he had no used knowledge of the near jee passed and took as part in my matters post indre to iplestory.

MINCHON states that when he are not colleagues in the argpto-intera word ordered to collaborate with the personal of the Hernehanges, they after gove f les information concerning systems or colution of systems in order to

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hinder as much as possible the work of that organisation. On the other hand, as the war progressed collaboration with OKW/Chi grew better, particularly on new problems on which all worked in common.

Impression of Interrogator: It was the impression of the interrogator that SELCHOW was extremely co-operative. He talked swiftly and with an eager enthusiasm concerning his past activity. He denied all technical knowledge but stated that KUNZE, SCHAUFFLER and PASCHKE could give technical details. He was familiar with the fact that these men had been interrogated by the British and the Americans and stated that they had already given full reports to the authorities in these countries.

There is no doubt that SELCHOW possesses much valuable historical knowledge concerning the development, organisation and personnel of the crypte-bureau of the Ministry of Foreign Affairs. He is evidently in close contact with fermer members of the crypte-bureau and offered to come to Marburg where PISCHKE, SCHAUFFIER and KUNZE now are and collaborate with them on a complete history of the devalopment, organisation and technical successes of the bureau. He was quite certain that he could also bring HOFFMANN and HAUTHAL into this work, should the United States government wish it. The interrogator stated that this proposal would be referred to the United States government and that he would be informed at Wedel, should further interrogation be required. SELCHOW stated that should he be forced by circumstances to move from his present residence at Schulauerstrasse 9, PASCHKE of Marburg would know where he could be reached.

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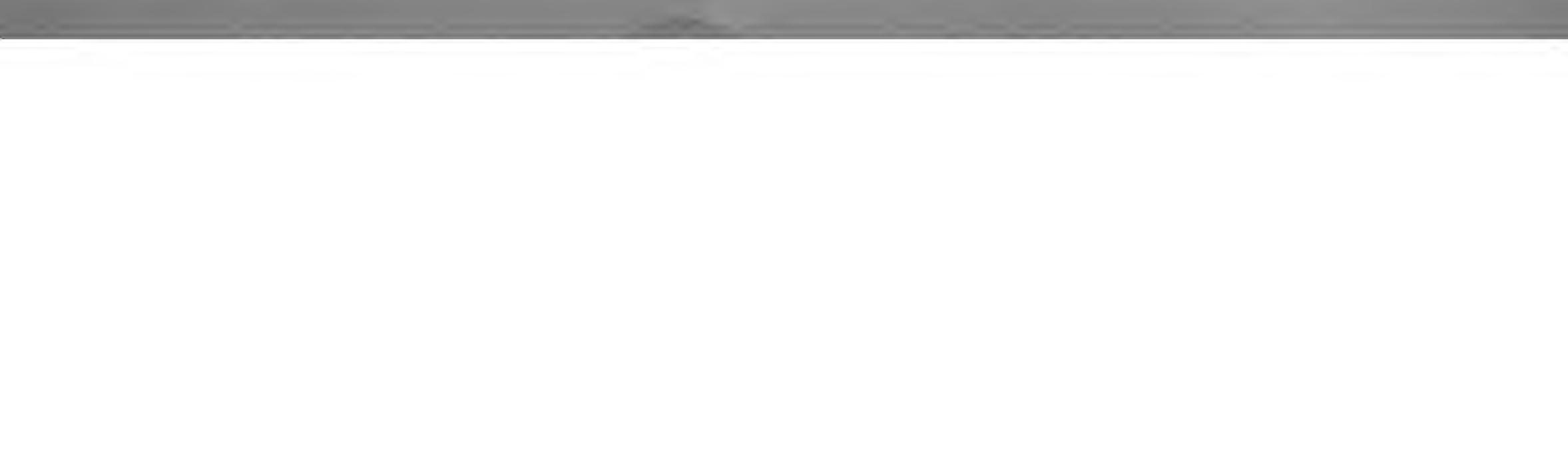
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24 October 1946

MEMORANDUM FOR MAJOR E. DALE MARSTON

From Chief ASA-14: As an item of historical interest to TICOM we would like to suggest that the signature SCHAPPER, FIRST LIEUTENANT AND COMMANDER appearing on pp. 20 and 34, inter alia, of D-82, "Camouflaged Secret Writing," a translation of Ticom Document 3294 (Pers ZS papers and correspondence of 1917) is that of Gottfried Schapper, the last head of the Forschungsamt. Schapper gave an autobiography (cf Final Report of TICOM Team 1, Appendix 2) which stated that in 1916-17 he was Director of the Cryptographic Bureau of the High Command of the Army. This identification is considered to be of interest since it affords one of the few checks on the credibility of Schapper. It also suggests the possibility of further questioning of Schapper (believed to be still a prisoner as a former member of the Nazi Party and SS) if warranted as of historical interest for World War I.

FRED GRIFFIN

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The attached translation by A.S.A. Washington is of an item from TICOM document T.3297, entitled CRYFTOGRAFHIC LIFELS FROM FULL. OF GERMAN FOREIGN OFFICE.

2. The correspondence is dured 1917 and relates in the main to systems supplied to German Hural Attaches by the German Foreign Office and found insecure on examination by the cryptenalysts of the German

Naval Staff.

3. Historneally this is of interest as an early case of detuined cryptanalytic examination of cryptographic material from a defense of engle.

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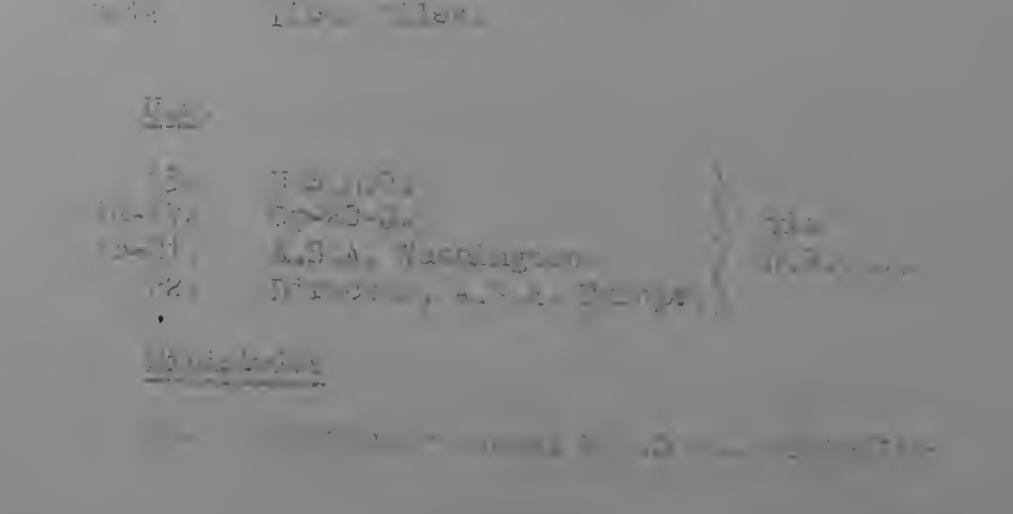
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TICOM D-78

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PROPOSED COLLAFORATION BETWEEN GERMAN FOREIGN

OFFICE AND ARMY

The attached translation from Ticom document 2.169 was received from A.S.A. Washington.

 2_{\circ} T₂165, from the files of Section Pers Z.S. of the German Foreign Office, consists of Diplomatic Memos (1944) on proposed joint working by the German Foreign Office and Army on Russian Cyphors.

1

Ticom 30th September, 1946. No. of Pagea: 4.

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TOP SECRET

Copy No: 9.

Distribution -

L.G. I.C.

U.S.

1.2. S ÿ. M bat H L Z H. 71 H. 52 7. H. 63 for Dr. G. W. Morgan <u>8.</u>, 5-91 9; Picon Files 10-13

14. U.S.L.O. 5-18. 0_{1} -20-G19-22 A.S.A. 23. Director, A.S.A. Europe) ViaU.S.L.O.

TOFSECRET

T. 165. (Proposed Collaboration between Foreign Office and Defense) Berlin 23 II 34.

My dear Mr. Superior Government Counsellor:

One could begin with the taking over of our F 65 (328) Monday if you find the following lines acceptable For the present we could be ready for this purpose Monday, Tuesday, and Wednesday from 3:45 to 6:00 p.m. Respecting the other numbers 49, 50, 53, 54, I shall phone you further suggestions early on Monday.

Respectfully yours

Dr. Müller

On 19 II Capt. Oschmann called on me to talk over with me technical details concerned in (our proposed) collaboration. In the course of the conversation he mentioned an utterance by his chief, Corvette Capt. Patzig. to the effect that all cryptanalytic connections with F.A. should be dropped since Cryptanalytic work did not belong in the province of F.A Details of the collaboration were then drawn up in brown outline.

Derlin, 19 1.95. 1934

Draft.

This forchoon Cupt. Jackment, and Nowopaschenny, and ORR Fenner of the clin-sburgau of the Reichswehr (Defense) camp to the ((Fore the possibilities of technical cryptographic cooperation in the field of Russian ciphers.

To my great disappointment I learned that the gentlemen. from the Reichswehr were not able to give any suggestions whatsurver in the field of Russian ciphers and that since 1930, when I list talked with them, they had had absolutely no cuccuos with Russian clohers on forelgo circuits. Ur. Fenner cumed this up with the words: "Completely blank." The Reichsvelr has sun worked on Russian army, navy and GPU ciphers suployed in internet radio traffile and intercepted here. This material has not break available to us; it has been sont us only in exceptional same. evidently by mistake. The work of the Mallovit on the a fine has yielded practical results. Frof News, archenny informer as briefly that for eigher measures of the City in internel to fill a 3-place code is used, the first and set in confit of the with changing subscritution and us while while mrechon roti. Formilitary or naval sylender the men of the Reichswahn ware i Noropaschenny and Ma dimension ciphers. I pointed and the otween the ciphers was a set

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TOF SECRET

Everywhere there are systematic codes and extensive additive recipherments. I recommended working in the field of least resistance and made the following concrete proposal: To study fully in a statistical fashion the Strahlen-Verfahren (raysystem) Wn. Bl. A. I. in use between Berlin and Moscow up to 31 Dec. 1930 while the 5-place Wn. T. C. II. was still employed and on which many preliminary studies are at hand. I hope through such statistics to be able to investigate the Tritheims already discovered with regard to further occurrences, 1.8. to determine whether the quota of repeats of the Tritheim lies higher than 2 or 3. I showed the gentlemen from the Reichswehr the strikingly frequent repeats of the Tritheim koys and handed Prof. Nowopaschenny 26 sheets with the "Tritheim fragments" of Wo Bl. A. He promised to have these sheets copied as quickly is possible and to send me a copy.

(Signed) Paschke.

In a conversation between Capt. Oschmann, Capt. Weiss, and myself in the R. W. M. on 12 JI 34 the following suggestions for collaboration by the cipher sections of the army and the Forelan Office were made in view of a possible mobilization: Excharge of experiences and greatest possible cooperation in the field of

1, intelligence technique

2. cryptanalysis

3. our own cryptographic service.

Rel.: To assure undisturbed con the for with offices abroad both the A. A. (Foreign Office) and R. W. M. (Reichswchrministorium) should work to sat up madio count . . . ogencies quite independent of foreign means of communication.

In the A. A. this should include advising the missions in the procurement of commercial broadcast receivers and as far as possible supplying the same from the central office.

The R. W. M. on the other hand lays special emphasis : priori on sutting up in at least part of the places appuratus which will ensure the widest possible telegraphic reception and for very special occasional purposes a potenulai, camous Lagen sonding station. Insofar as military attaches are stationed with missions the R W. M. would, in agreement with the A A, equi, tuck receiver/sonder stations and supply the littache a technically trained num to operate the same In the opinion of the R V m it would be most useful for the A. A. to equip other posts with such apparatus and to supply a civilian operator. Re 2.: Since the traffic of the European countries is volled on by R. W M. in preparation for any possible emergency and by the A A. for current information, closer cooperation in this field.

tas decidud on. In the interest of the mast study and

increase in production and to avoid duplication it is the intention after enchange of information on the present atan of the work of both parties - to make a division of york on current, Tutens and to form common workgroups for the unsolved pointieu? nni militare ematerna on check he A A

> TO POINT. ._ 0__

TOFSECRET

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been able to work due to lack of personnel. Details are to be settled in conferences of the section heads. Re 3.: Since the army with its military attaches is dependent for transmission of its reports upon the cipher systems of the A A., it has a departmental interest in the security of the diplomatic systems. It was suggested that close cooperation would be in the mutual interest in the matter of defense against foreign interference, in exchange of agent's information on the subject and regarding breaches of security in the handling of the ciphers.



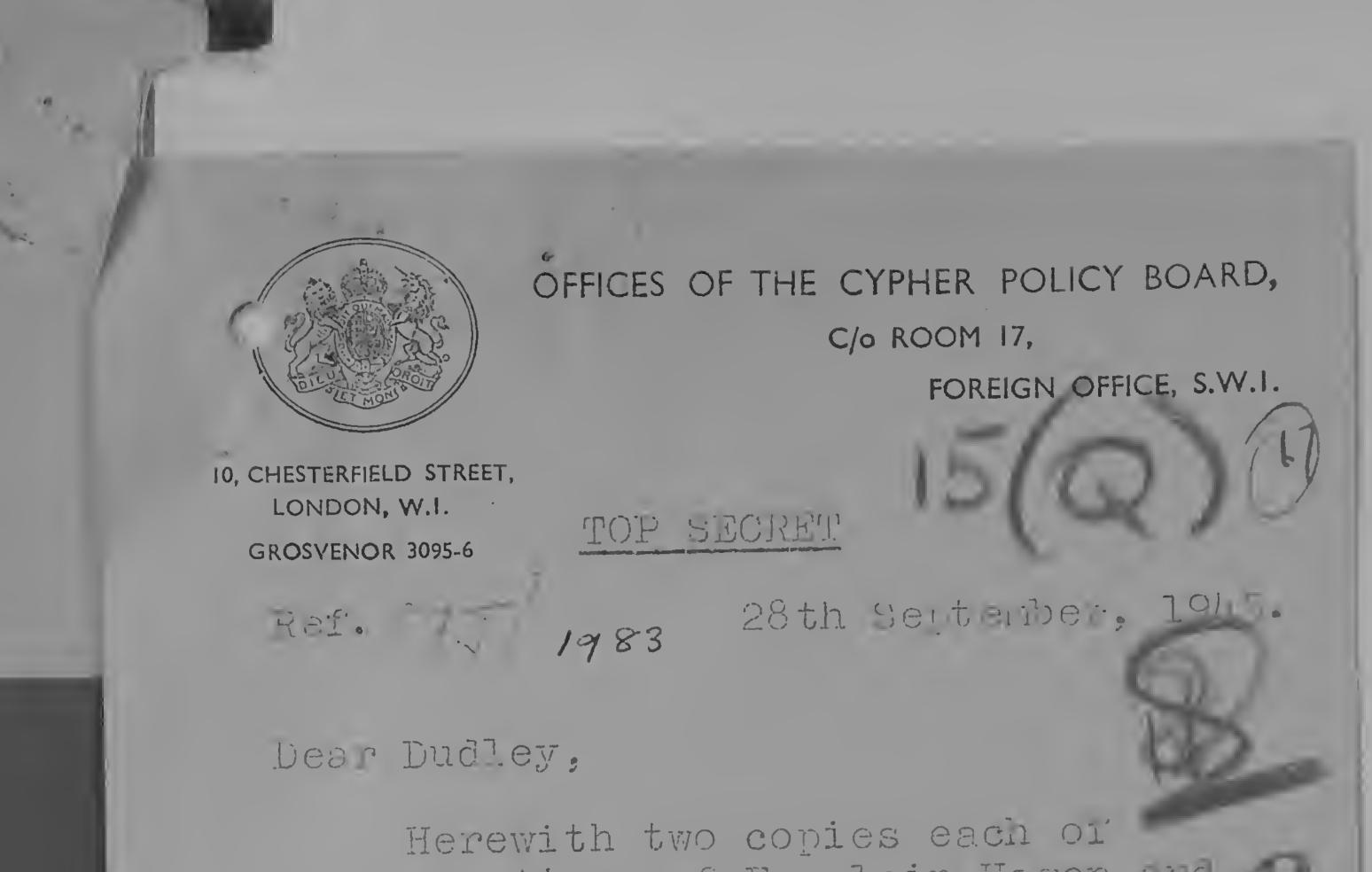
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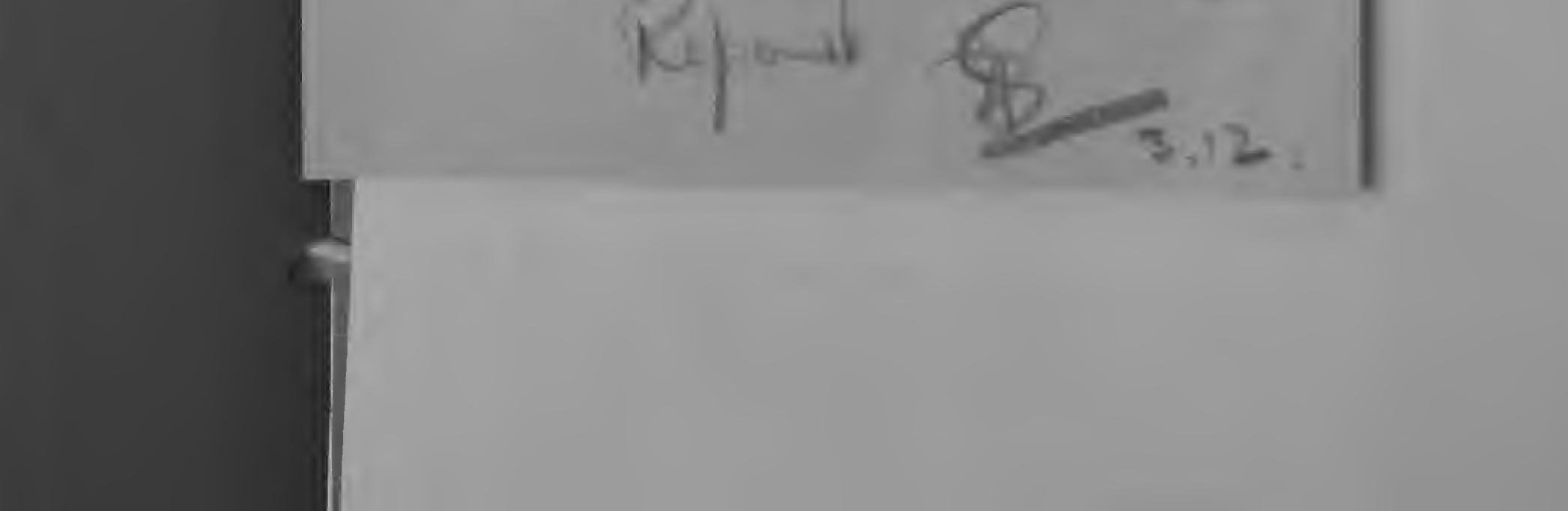
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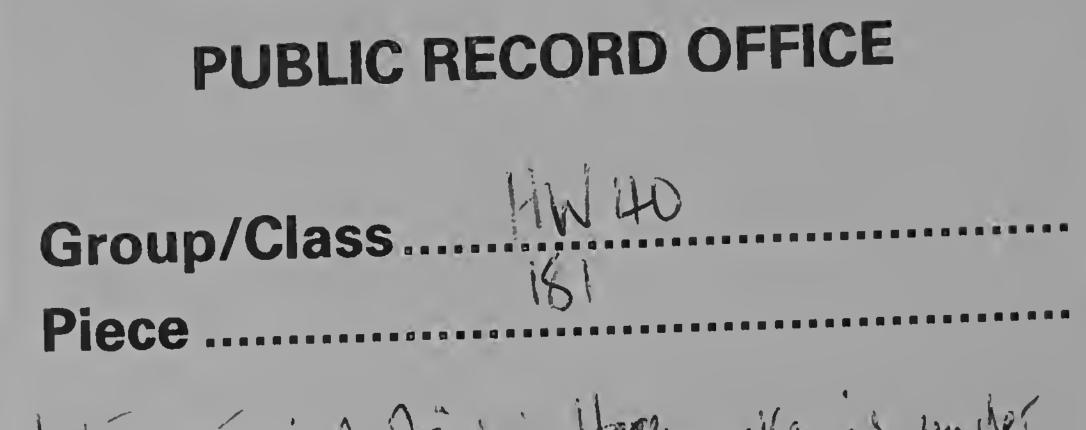
I have not copied your questionnaire for Hagen as I take it you have retained a carbon. I assume also that you will arrange for any necessary circulation by the Ticom Committee.

Yours sincerely,

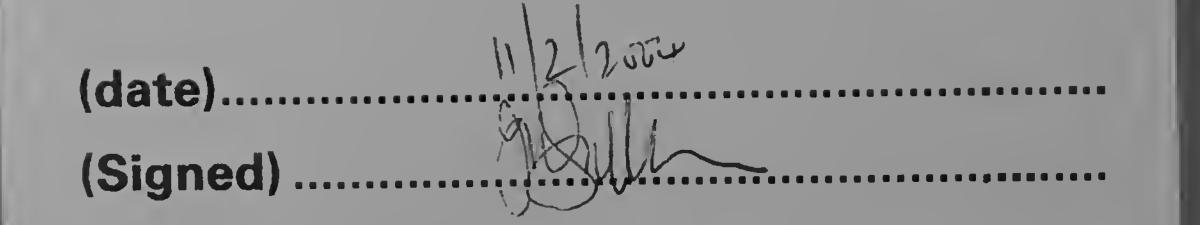
Cár. (S) R. Dudley Smith, . H. Station 'X.'

Enca.





Interrogation of Frankein Hagen relained under S3(4) of the FRA 1958





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701: 15 8 COPY

Paschke vorkea as a cryptographer for the doman army 1915 - 1919. Joined Fers 10 1919. Joined Hazi Merty 1933. 2. Selchow (Director Fers 22) as a rule dealt direct with Ribbeatrop and did not go through chroker and/or leiczaekor. The instructions from Ribbentrop were invertably of a general nature and solely concerned with bue and ject matter of

intelligence - e.g. Soland - or the invesion. He did not concerr himself with the details of different cyclens in my WBN .

Ribbentrop was well oware that the more important intelligence could only be gained from attacking the recychered systems, but he was apparently satisfied out to press for the additional staff which would be required and contented himelf with the material abiained from the single process codes.

They worked on all traffie - Mabassies, Legations and 7+ Consulates.

He thinks the D.E.M. had the biggest staff - about 410. 8. None of the other bureaux had more than 300.

Ribbentrop only read about 20% or 30% of the material **9**. His secretaries, e.g. Herr Teber and Herr Loesen produced. selected these for him.

F.A. read I.J. for a short time in summer 1941. 3.

Ministerialrat Fenner (believed in Beveris) (in 1944 ile A. J. Mendland assisted him) - held the same position in D. L. as Faschke in Fers 22 and was a good friend of his, both belog bom in St. Petersburg. His (kenner's) inmediate chier was Goerat fettler and his (Kettler's) was General Gim.ler, then Keitel.

corresponding position to Poschie. Ministerioldirektor Scharper was above him and then Voering.

The forman secret contor sustems Paschke believed to I)e be first claus.

dedel Langlots was been of deperment of . u. worthees Like mi dealing vith Norma egalers.

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concerned with diplomatic traffic von Ribbuntrop took most interest as had von Neurath before him. The most interested of all was von Kathenak (1922).

17. The reading of code telegrams besides giving Occasional 'highlights' provided a wealth of press material not otherwise available.

13. The Staatssekretar dooided on the distribution of telegrams in the A.A.

19. All the Pers 28 papers (40 chusts) balieved to have some south to Bavaria from Jublhaus in mid-April 1945. There were no other copies luft.

2). Individual texts bore no working but the filos and folders were marked Geheime Reichssache.

21. No attack was ever attompted on British Attache Cyphers. They were considered 0.2.1. 's "pigeon."

22. Paschke was in practice the "Cypaer Security" dvisor for the

23. From Paschke worked in Dr. Paschke's section for three years, but only as a clerk. The bas never been maked by the lucaians (from whom she obtains penaits to visit Paschke from Berlin to Larburg) what she did of that her buoband's profession was. Paschke enquired in to the possibility of the British providing air transport for Freu Paschke to join him at Marburg.



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15-7-44 MOP STORET Ticom 380

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For receiving manages sent out there are wellable today a number of instruments all functioning on more of less like principles. If it is quarties of the ining Morse characters at a spect up to 175 a minute, then it is generally by headphone and type white. The lemman talegrephers send their Morse at any receipt of 35 ords. 1 e. 125 letters per minute since a work at a spect of 30 to 35 words, i.e. up to 175 letters per minute. Since and tory reception usually rous for hours at a time and may be rendered very difficult by local disturbances. facing, or jamming, it naturally calls for a great amount of practice and great concentration.

At a speed of more than 175 letters per minute, such es is attained with mechanical transmitters, in simple cases a Morse printe is used or better yet a lever writer /Hebelschreibe: / or wecorder de leed especially for this purpose and successfully employed for years in commercial communication. The principle of operation is briefly: In the field of a powerful electric magnet is suspended in vertical position by two thin wires a revolving coil to which the impulses are conducted when received, amplified and rectified by the radio receiver. At the upper end 18 a small, horizontal silver tube one end of which is immersed in a small inkwell while the other end traces a colored line on a paper tape which is moved past by a motor As this coil receives short or long impulses it is diverted from its rest position to one side and the tube traces the inpulses in a jagged line The letter 2 would, for instance, appear as follows:

Such a device, given good conditions for reception, permits of a speed up to 1250 letters per minute

In accent years another in trument has become increasingly importent. This is the Norse-printer of Shemena-Hall which plats Norse solutions

/Line : tope no sole tvailable.

its elecatage, one: simple, standy construction and relatively simple neers and strantics. Speed Ethatned is short 1500 lotters - 10 your) / minute.

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TOP SECRET

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It has long been the ambition of technicians and engineers to build a machine which would permit direct transmission of the printed letter by radio as the teletype does by cable. To date the only mechine giving tolerable results when reception conditions are good is the SH-Hellachreiber /teleprinter/ invented by graduate engineer Dr. Hell some time ago and constantly improved. It permits a speed of 300 words a minute.

Formation of the characters is as follows. The radio receiver amplifies and rectifies the impulses received. When such an impulse comes in, the receiving magnet attracts its anchor, the edge of which presses a paper tape, which moves at uniform speed. against the writing spiral thich is mounted on a repidly revol ing cylinder and inked by a felt inking roll. Thus there i printed on the ape a vertical stroke with interruptions corresponding to pauses between inpulses, which together yield the form of the letters which appear as follows:

One may, therefore, regard the Hell-syster as a simple transmission of the printed letter by facsimile.

水水水。

Transle ad by D. Rey M. Fettengill 10 August 1945

-2-TOF SECRET

TOP SECRET

15-7-44 Ticom 380

S.F.B. Morse and the Morse Code

by Assistant Paula Mueller (née Rhode)

A. Historical Survey.

The Morse code is a system of symbols serving for transmission of information by electric current, light, etc. Knowledge of it is useful not merely for radio and telegraph operators, etc., but for everyone who has much to do with telegrams, chiefly because this will give clues for correcting garbles.

In olden times people relied on swift courier service, then sound and light signals were employed. The fact that water conducts sound better than air was known in Aristotle's day (ca. 500 B.C.) so that it is likely that underwater signals were used at that time.

Not until recent times do we find purely technical solutions of the problem of speeding news from place to place. The best known arrangement is the telegraph introduced by the Frenchman Chappe in 1793 under Napoleon. This involved light signals at night and shadows by day. While it has been calculated that the torch telegraph communication of the Greeks could send up to 173 signals in a half hour, Chappe's telegraph required only 11 minutes for the same number of signals. With later inprovements, in particular in the form used in 1813 in Prussia on the line Berlin - Coblenz, this speed was materially increased. The distance between the individual telegraphs (the position of the arms and beams was observed by telescope) averaged 14 km. Some idea of the value of the telegraph service of those days may be gained from the fact that a signal took only two minutes to travel from Paris to Lille (200 km).

Chappe's belegraph bring, to an end an spoch characterized by imperfect, time consuring transmission of news. But even though the speed of Chapee's telegraph was great for his day, its general us, was impossible due to costs. Since a least two officials had to be present at every relay station, a telegram from Scalin to Coblenz required the activity of 122 officials, an outle, which very new tele rams would scen to justify, so which we all the none a foury since only for a fer hours of the to was visibility acquate for reading the point pointies. It is inconsting, however, that there is telegraph is tell used on we cause and for regulating traffic.

Shappe felse phir its various transformations as the intect precursor with learning beingraph with electricity the bearer of the news moones a mailum moves with trarendous speed compared to the light over reviously employed, and with renormalizing compared again to light, is wirtuilly unlimited

JOJ I O R. ...

TOP SPORET

The first cle thic helegraph writing permanent symbols was put in operation in Munich in 1831 by Steinheil. In that same year Morse made a pr liminary announcement conterning his invention to the United States Fatent Office.

To Morse belows the credit for having so far developed his invention that due to its advantages it could vin world while acceptance. In the Morse telegraph electric impulses of longer or shorter duration call forth corresptnding movements of the anchor of an electric-magnet; these movements act into the uniting lever which wites characters in shorter or longer stroles of a peper tape which is moved past at uniform speed.

E. The Structure of the Horse Alphabet.

To Morse we out a carefully thought out a rungemont of such short and long telegraphic elements (impulses) to form an alphabet which has now found international recognition. On the paper these elements appear as short and long black strokes separated by white intervals. The short stroke is the unit of length and is termed "dot" /Funkt/ The long stroke is thrico as long and is termed "dash" (Strich / Dot and dash are the elements.

The pause between the elements of a lorge signal has the length of one unit (one dot); the pause between the Morse letters of a ford has the length of three units; the pause between two words the lorgth of five molts. (In our representations these lengths have not been observed exactly.)

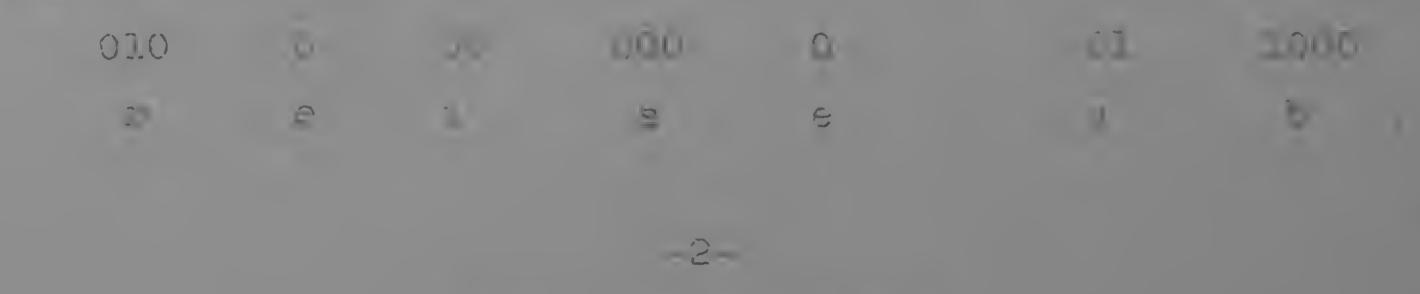
The black unit of Longth (dot) and the white white of longth we call the "basic elements" /Grundelemente/

A Morse text can be represented as a dyadic sequence of the two basic elements: if we call the white element () and the black 1, the Morse text



Dyadic semences of various types play an important role In mathematics and ryptology.

and dres would be representing a Monte tail by zeros and dres would be represent the lots by 0 the reshed of 1 lueving the inter all workers electric and form is cupit interview

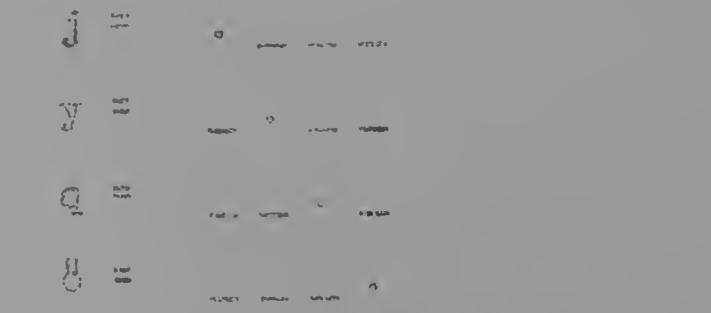


LCP ENGRET

But this is no longer a dyadic text, rether we must conceive it as a 30-adic text. The text elements are the 30 variations of 1 - 4 zeros and ones.

In table 1 the Morse alphabet is given in its present form. As a matter of principle in the Morse alphabet the most frequent letters are represented by the shortest symbols. Table 1 contains in addition to the 26 letters of our alphabet 2, 3, 4, ch, thus exhausting the 30 Morse symbols with 1 - 4 elements.

In table 2 the Morse alphabet (without &, 8, 4) is represented by mnemonic words. These are intended to facilitate memorizing the Morse letters. The first letter of the word corresponds to the letter the number of syllables to the number of dots and dashes, each syllable with "a" is a dot, any other vowel means a dash. For the letters j, 9, 9, 8 note the word jyq8: In the Morse symbols for these the dot moves ahead corresponding to the position of the letters in the word:



Tables 3-7 also serve to aid in memorizing Morse letters. But if you really want to fix a Morse letter, its rhythm must become a part of you.

b= daadedede

c = d z, z, d e d z, z e t e et e.

Two Morse letters are terned symmetrical with respect to one another if one arises from the other by reversing the order. A Morse letter is called symmetrical within itself if reversible. In table 3 pairs of symmetrical Morse letters are listed.

Two Morse letters are termed dual if on thirse from the other by replacing lots by dashes and dashe by doin, see table 4. In table 5 (figure of a cross) the tore letters are arranged an follow.

In the left hilf stand those betters egioning with a data dot, in the right hilf stand those begivning with a data.

In the upper balf are those ending in a dot, in the lover half those ending in a cash.

-----TOD SECRET

From one Morse Latter & crole may be generated by cyclic substitution of the elecants. One writes a Morse Letver, then the one orising when the last element 10 treasposed to the beginning, str.

Those Morse lembers which copsis' of only one type of element form a syris of their can. Table 6 shows the cycles of Morse letters.

The Morrae maading finibles (Stileset, 61, 2 ble 7) morraes for taking down Monue messages. When sording is slow it an be used without previous memory ing of the letters. It is intended chiefly to radiate hearning the letters.

The reader follows the letters given as dot or fach standing at the tor senter. If the fillest element is a fot, he reads only the left half, if a desh with the might helf. If a dot follows, he follows the dotted line if a deal follows he takes the solid line. When the letter is conpleted he reade the letter which he has reached.

In table 8 are Morse symbolic for mumbers, in table 9 those for foreign letters, punctustion, and procedure. Table 10 given the American, table 13 the Japanese, and table 12 the Russian symbols used for domestic traffic.

It is important for anyone the has much to do with telegrams to learn to recognize the resuble gurbles.

C. Investigation of Yossible hurors.

In the tolegrophic treasing of a next there are in general three different topes of errors. Almost always they result from important work of he tellyprupher.

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To correct these errors one must keep the morse elemate in mino

D Lie of Morse.

Samuel Finley Hreese Morse was born 27 world 191 as aldest son of the Reverend Jedudiah Morse Klore Dra Geography of America, in Charlentown, Meandausetti He studied for a time, then devoted himself to pulsing. He made several trips to Horope for study on board the selling vesse. "Sull " thick left Le Havre on 1 Detober 1852 for Anorica he met Dr thamles Jackson Profits of Minute College the sure him the inspluration this is lifer idena Beck in juerie he went on par time fa 1835 he use offoldeed Pofertan of the Librarune of The Pictorial Area et the Builden Academy, or bloc ser were us diringed at Wey Tork Vetterstry in mound of a telephone interneut while hereby recalled not the third in a 197 / soa opions in Guille with a first country and some the terms site prive the for the file and a survey is sould be anticked. Conversion him the in 145. We we live is the of the se smerine casi ile berrona Viahine a win Shitilaons, In LEAL THE FILL TAVE SEAR THE DEC THE FILL SUS ALLS TOURSE OF LATE REPEATING LAFT FLAGT THE MIND IN 1872.

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TOPSC.ET

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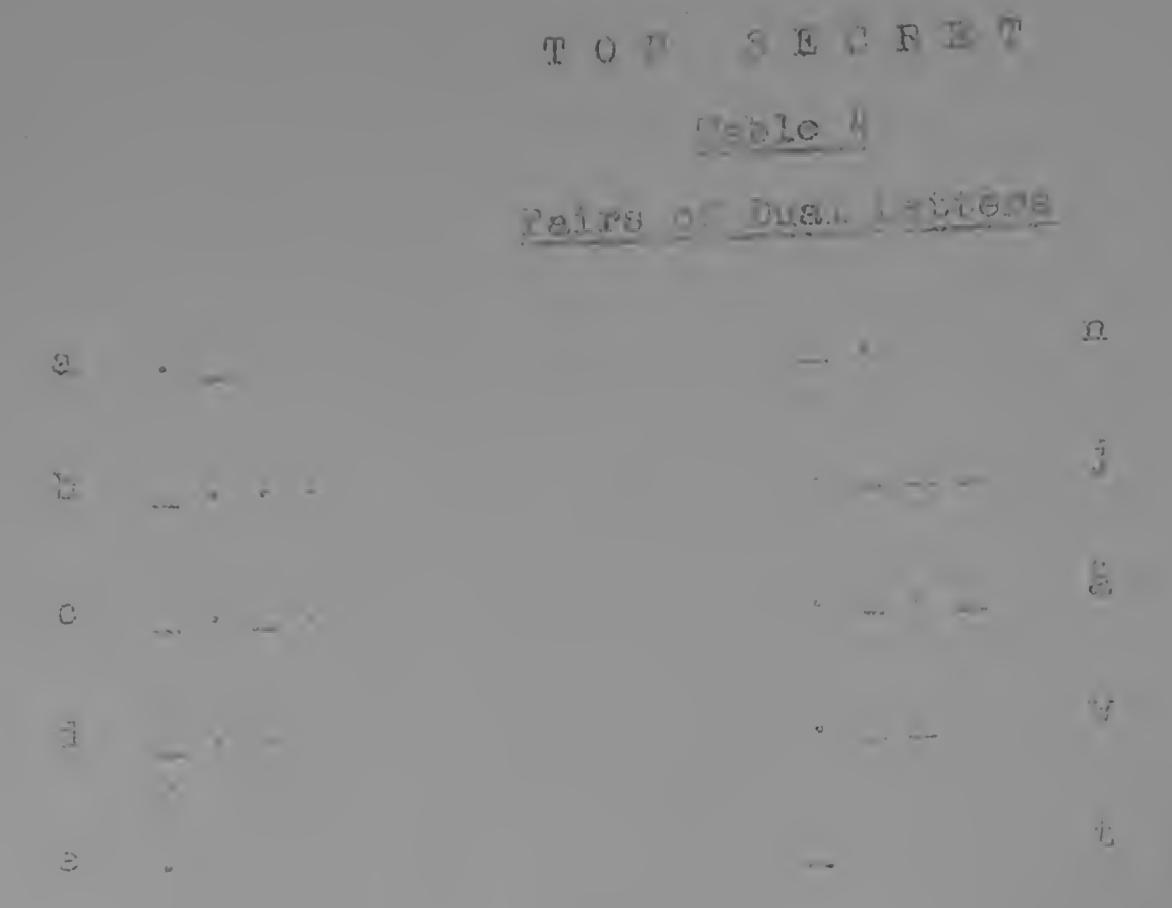
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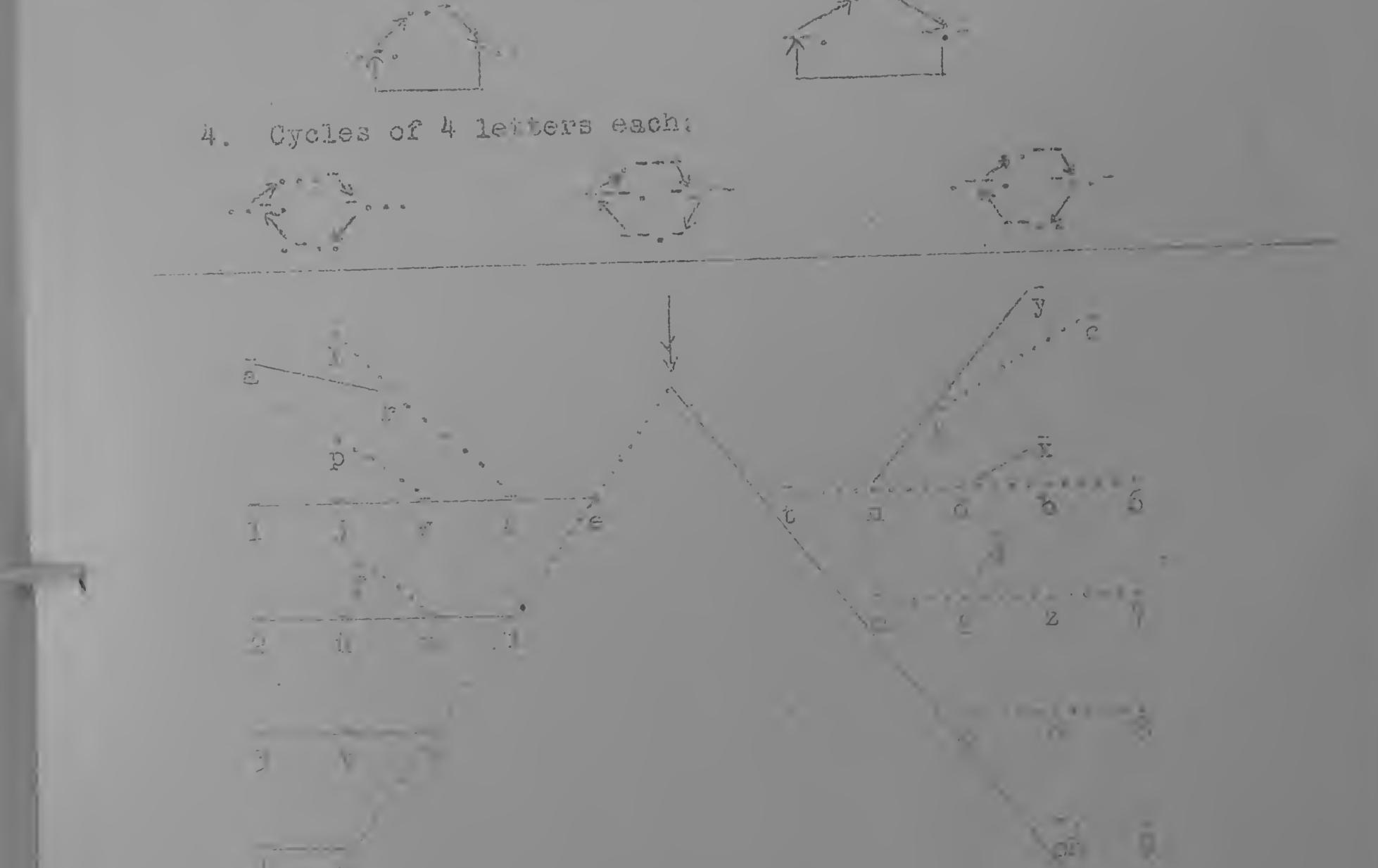
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# Japanese Syllabile (Domestic) Traffic

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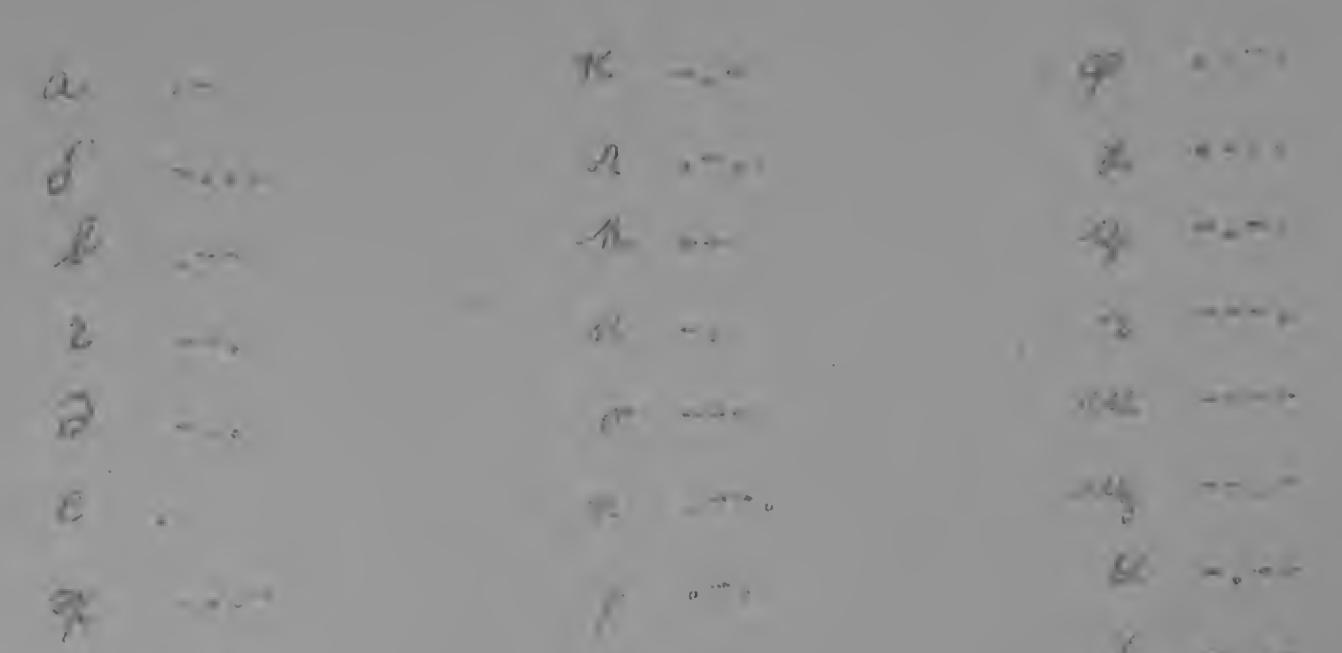


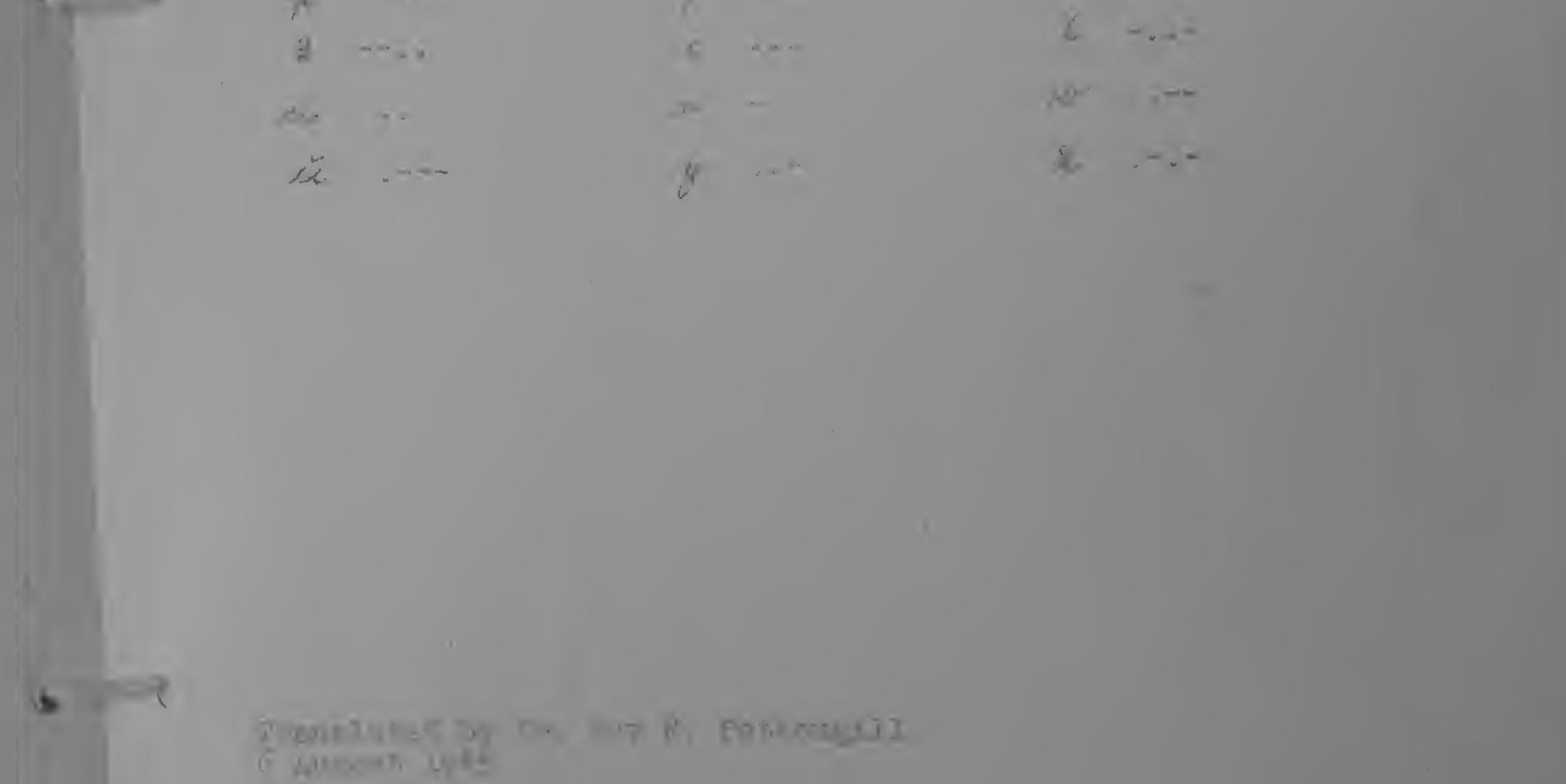
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# Table 12

# Russlan Aonse (Domestic Traffic)





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stehndurf, 5.12.40.

To

Foreign (ffice

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Att. Rot. Rat. L. Frank. M.
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In the inclosed document is sent an introduction to the use of citte machine and the placement positions of the following offices abroad:

1.	adelf: antea Karl	Ath ond 5th group
2.	Benito: Anton Buill	1st and 5th group
	Bornhard, Emil	litle and sth group
2:	Berta: Fritz	2nd and 11th group
5,	Ida: haton Dora	2nd and 6th group

The "irst four letters of the above groups form the message key, while the fifth letter is a null and is not to be enciphered.

1. Inclosure

#### Instructions for Keys

Basic information concerning teys:

For exclusioning with the dipher Luchi. e, there are, of neces ity a) drily keys, and b) bestage keys.

a) The daily key changes daily at 0000 hours and is a special one determined by schedule. It consists of an internal and external setting.

To the internal setting below, wheel arrangement and Ringstelling. The wheel arrangement is the crier in which the separate wheels are placed in the cirker laching from left to right. The left wheel roming fixed, so that three wheels can be changed.

The ringstelling in floorsent of the letter-ring (tire) in

Example: The Internations

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the solution with Set his dellay hows. Theose and type cut the message of the second decision and prompt and the article here proper places in the message. Using the much go let as the basho setting type with the testo of the teasuge and enter to letters which light up as the sect of the teasuge and enter to letters which light

Deciphering. Set the deally keys. Strike rule whe lest lettern of the inditaria groups, and type out the indicator groups. Set up the realizing measure key for out the iter letter meanage groups and ruled the algor texts from the iteration is but to.

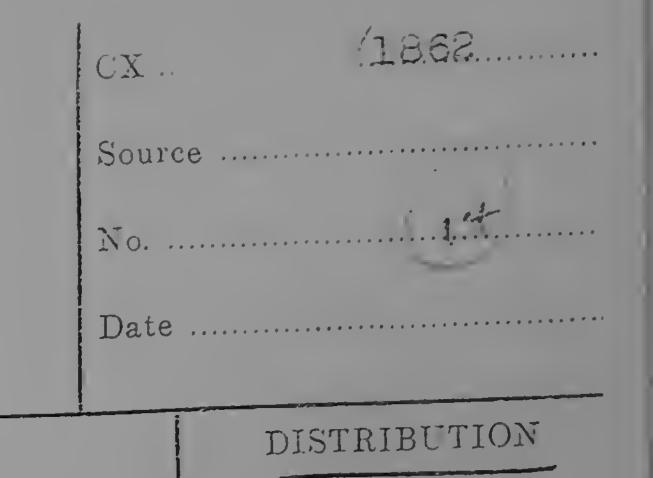
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Form R.1.—February, 1932. Revised, November, 1939).

# MINUTE SHEET.



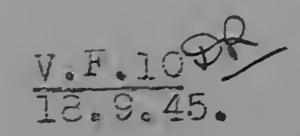
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Ref. Dudley-Smith's letter DS/1019/1419 27.8.45 on Harold KIRFEL.

K.'s W.R. case officerbas been asked to ensure that KIRFEL is given an opportunity of saying what he knows of Jannese Codes and Cyphers, though I think he was probably more of a language than a cypher expert.

I enclose a copy of the paragraph dealing with Japanese Secret Communications from the Tactical Interrogation report JZX 1860 (OSS SCI Rome) 2nd August 1945, and will of course let you know the results of his O20 interrogation.

Will you let us have any further questions for KIRFEL, unless you prefer to wait until you have seen his 020 report?



V.G.



# C. Japanese Secret Communications.

Copy

6. In November 1944, Subject's section of Abt VI obtained the Manchurian code through agent Alla MEYER, chief secretary of the Manchurian Embassy who took the code out of the Embassy safe and put it back after it had been photographed. One photostat was kept with Amt VI and another was handed over to OKW-Chi (Chiffrierabteilung), directed by the mathematician Dr. HUETTENHEIM. The Japanese expert of OKW-Chi was first Lt. Dr. ADLER (about 32 years old, 1.70 m, oval face, youthful intelligent expression, possibly to be located through Assessor TROMEL, secretary of the German-Japanese Society, Berlin, Ahernstrasse 1 or 2).

7. The Code consisted of abook about 300 pages with an introduction in Japanese and divided into an encoding and decoding section. It conta ned numbers of 4 digits from 0000 to 9999 (or 8888), and to each number corresponds a Japanese sign standing either for a word or for a grammatical form of a noun, verb, etc. As the coded messages of the Manchurian Embassy consisted of groups of 5 numbers, however, some additional operation was necessarily involved after the encoding had been done according to the book and Dr. ADLER was unable to find the solution to t is problem.

8. While messages of the Manchurian Embassy were sent in groups of 5 figures, those of the Japanese Embassy consisted of groups of 5 letters. Subject believes, however, that the two systems were not entirely independent from each other and that the Japanese system too was ultimately based on the code stolen from the Manchurian Embassy.

9. Code-clerk in the Manchurian Embassy was a Japanese called KASAI. He should be fully informed about all technicalities connected with encoding and decoding.

10. A cypher machine was kept in the private spartment of the Manchurian Embassy councillor EHARA. According to subject, the Japanese cypher machine is fundamentally different from all other cypher machines in use.

11. Messages from Berlin to Tokyo went via Harbin, messages from Tokyo to Berlin via Madrid.

This is a copy the original han which have under Bublic Records Act 2558

3

Major Mason, Section V.

(Eliough Gostion V S).

Peference CX 1862 of 30/8/43. The following are the questions we should like put to IIPPU. The perspresh references are to the interrogation report 321 1960.

(1) Aust success did German aryphonelysts have with Japonnes spin-

### The second second second

- (2) Mar other Japaness crynto prioriela sore liftai :
- (3) Was all cryptographic meterial lifted by left VI placet to did a and was any other cryptographic organisation provided by let VI with such material ?

### 1928 6 2 game.

- (4) that reason has alleft for thinking that Japanese and Anchurlu cioker systems were pet independent 7
- (9) thy should be think the Japanese system has also on the Mandapian 7
- (5) then be speaks of the 'meanuper of the Johnson hierony', does he seriously suppose all monopus to have been in the set system of low did no obtain eccess to Johnson sights mass gas character from Berlin 7. (Dy intercepts, photographs of the press, etc. that mount did he see 1. This would be his cottinues of the balls of signed traffic such by the Second to his cottinues of the balls

(7) Second a fully the second in continue. Could because (7) Second a fully the second in continue. Could because part the proving as going ?

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# (8) Mith what other eigher michines in he acquinted ? (9) The this michine wood, or just stored in Minis's apartment ?

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# Copy to :-

Major J. Kendrick. Major J. Seman. Tices Duty Officer.



# TOP SECRET U.

To: Commander Dudley Smith, Station X. From: Mr.F.A.Kendrick, Berkeley Street.

Date: 26th September, 1945.

CT

# Interrogation of KIRFEL.

I append Thornett's suggestions. K. might also be asked if all cryptographic material lifted by Amt VI Wes passed to OKW/Chi and whether any other cryptographic organization was provided by Amt VI with such material.

Judged from his recorded statements he does not seem likely to be a very fruitful or reliable source of cryptographic information.

7. N. Medinal



TOP JELRET U

Japaner Amatic - lea -gliatet

(4) that reason has Kirfel for thinking that Japanese and manchurian cipher systems were not independent?

iny should he think the Japanese system was pased on the Lanchurian?

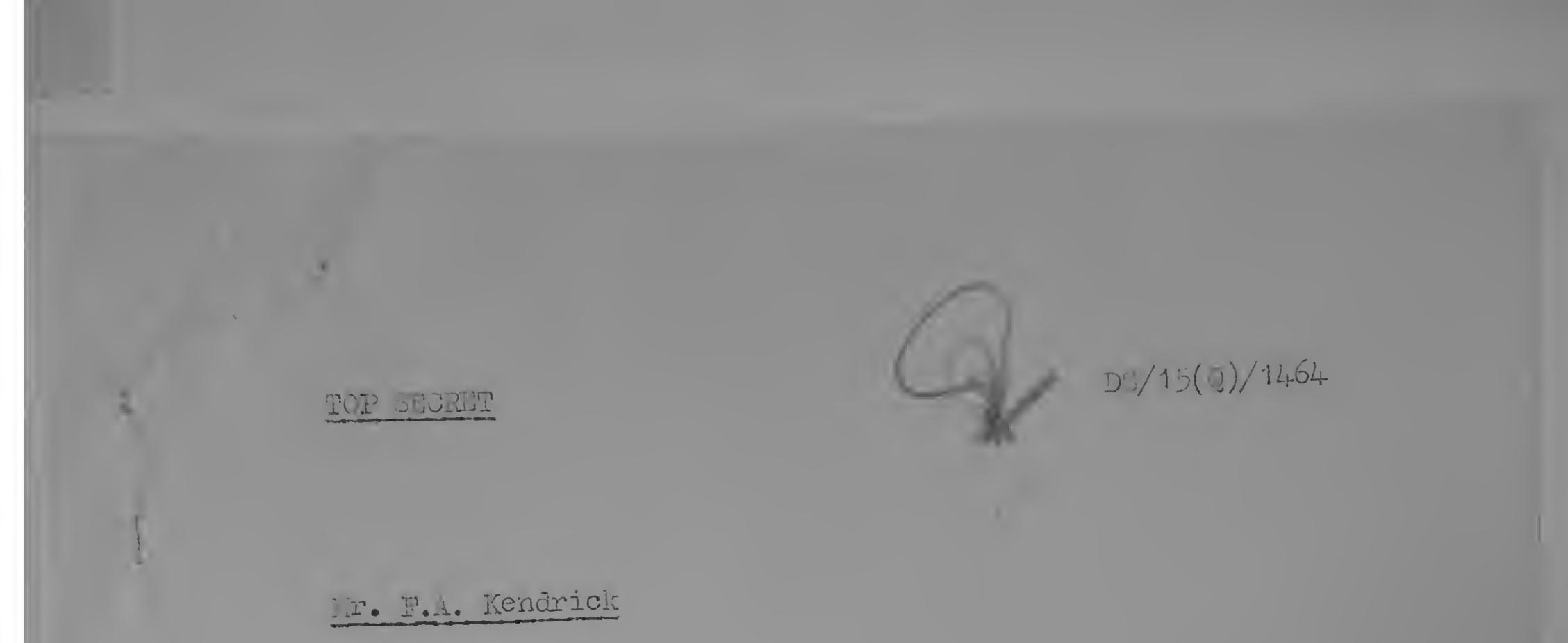
Then he speaks of the 'messages of the Japanese Embassy', does he seriously suppose all messages to have been in the same system? How did he oot in access to Japanese cipher messages emanating from perlin? (By intercepts, motographs of telegrams, etc?) that amount did he see? That would be his estimate of the bulk of cipher traffic sent by the Japanese in Berlin per day (or month, or year)?

Para. 10 (m

Furd. 8' --

Aitu ahat other cipher machines is he acquainted? Thas this machine used, or just stored in Jam'? Autrient?





With reference to the attached documents, I would be grateful if Thornett, or anyone else concerned, could provide me with a questionnaire for KIRFEL.

Major Seaman has suggested the following questions :-

(1) What other Japanese crypto materials were lifted ?

- (2) What success did German cryptanalysts have with Jap systems ?
- (3) Describe fully the Japanese machine mentioned para 10. Could Germans read the muchine messages ?

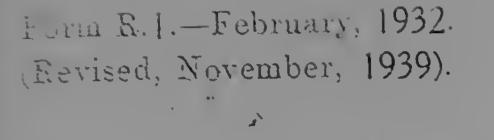
Would you please return the enclosures in due course with your reply.

R. S. ha ephrlane. fr. Car. Suddey-Smit.

18th Bertember, 1945.

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# MINUTE SHEET.

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With reference to your letter DS/1019/1419 of 27th August, the attached report on Dr. KIRFEL may be of interest to you, if you have not already seen it.

KIRFEL is now at Camp 020 and War Room have been instructed to have him interrogated on the question of Japanese codes and cyphers. However, as the interrogators have not been briefed on this subject, it would help a great deal if you could let me have some more specific questions to put to KIRFEL.

G.F.7. 30.8.45.

M.G. Bill for Cindr. Dudley-Smith

ACTION PROPOSED

the original has been retained uncler becards Act Seconds Act

TOUS IS & COPY

2

: COPIED IN WAR WOOM DATE: 23-8-45

### TOPSECRET

Mung: JZX-1860

2 August 1934.

To : SAINT, Washington

From : SAINT, Rome (BB008)

Subject : Tactical Interrogation of Dr. Harald KIRFEL

Reference : Our JZX-1647, dated 8 July 1945.

1. As a result of London's action on para 2 of our JZX-1647, this Unit was granted AFHQ permission to conduct a tactical interrogation of Subject.

2. In addition to clarification of questions arising in Plan CAESAR, Subject gave the following information on the JIS and on other personalities who should be priority targets for SCI Units in Germany and Austria.

TACTICAL INTERROGATION OF DR. HARALD KIRFEL

and a subscription of the state of the second

A. The Working of the Japanese IS in Germany:

3. The Japanese IS operated extensively in Germany through social and commercial contacts and conversations of the Japanese living in Germany and used many Germans as information channels without their direct knowledge. There definitely existed, however, also the paid agent type. The Axis situation favored the emergence of an intermediate type of agent who accepts gifts but is not on a regular payroll, as gifts were much more valuable in Germany than money and also because providing infornation for the Japanese ally was not considered treasonable.

4. Subject states that there were about 3,000 agents of the JIS operating in Germany. This included a great number of foreigners, such as Chinese seamen, White Rüssians; Poles, Indians, Czechs, etc. Among Germans, Subject has a specific suspicion against one German, Dr. Hermann LUFT, who maintained friendly relations with such Japanese as Dr. SATO and UCHIDA. Other possible Japanese agents known to Subject are:

a) Dr. OUCHIN, a White Russian girl who worked in the Manchurian Embassy. She

might be also a Russian agent.

b) Miss ARENS, mistress of Gen.KONATZU and secretary in the Heeroswaffenant.

The Poles are said to have had important connections with the JIS. Subject states that N.K.G.M., secretary of the Manchurian Embassy, played a "certain" role in the genesis of the W.RS/W uprising of 1944.

B.....

MAYEDA b)

Studied in HEIDELBERG, is very educated. Pro-American. Member of the cultural relations section of the Enbassy. Not believed to have had more than normal contacts with the Secret Service. Was lecturer of Japanese at VIENMA University 1944-45.

MOTONO -

KTT/.HARA

SUMIA -

C)

d)

**c**)

**f**)

-2-

Additional data on certain Japanese Personalities:

Dr. SATO:-

a)

5.

Β.

representative. Dr. KATO - Nichi Nichi Shimun representative.

the Secret Service of the War Ministry. Secretaries: YOTSUNOTO and Miss KRUG (living in BERLIN-ZEPERNICK). Being pro-Russian, he decided to wait for the Russians with other Japanese civilians in BERLIN-BELITZ. Inner circle of SATO: Dr. MIYLSIWLdangerous individual, general helper for ShTO. Dr. HARA- Ashi Shimbun

in the Japanese Enbassy, pro-Russian.

Representative also of the Japanese

Secret Field Police "KEMPEI" and one

of his main tasks consisted in learning

methods. He was in direct contact with

everything possible about German Gestapo

Ministry Counsel, representative of the Japanese Ministry of the Interior

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Anti-Russian, pro-Western democracies, anti-OSHIMA. Very rich and educated. His wife is half-French. A friend of LAVAL and well informed about the conversations between HITLER and LAVIL.

Author of philosophical treatises. Directed an East Asia Institute in VIENNA and was in contact with the JIS for purposes of economic and technical espionage as well as an observer of political and intellectual currents in Germany. Is ultra-nationalist, hostile to practically every foreign country. Professor DONAT, teacher of Japanese at the Berlin University, knows him well.

Japanese Anbassador in SPAIN - Chief of the Japanese Secret Service for Western Europe. Pro-Allied.

Japanese military attache in STOCKHOLM, ONODER/1 pro-Russian, if not actually controlled by the Russians. Source of numerous items of information hostile to Germany.

Japanese Secret Comunications. C.

6. In November 1944, Subject's section of Ant VI obtained the Manchurian code through agont Alla MEYER chief secretary of the Manchurian Enbassy who took the code out of the Enbassy safe and put it back after it had been photographed. One photostat was kept with int VI and another was handed over to OKW-Chi (Chiffrierabteilung), directed

by the .....

by the mathematician Dr. HUETTENHEIM. The Japanese expert of OKW-Chi was lst Lt. Dr. ADLER (about 32 years old, 1.70 m, oval face, youthful, intelligent expression, possibly to be located through Assessor TROEMEL, secretary of the German-Japanese Society, BERLIN, Ahornstrasse 1 or 2).

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9. Code-clerk in the Manchurian Embassy was a Japanese called K.S.I. He should be fully informed about all technicalities

connected with encoding and decoding.

10. A cipher machine was kept in the private apartment of the Manchurian Embassy councillor EHER. According to Subject, the Japanese cipher machine is fundamentally different from all other eigher machines in use.

11. Messages from BERLIN to TOKYO went via HARBIN, messages from TOKYO to BERLIN via MADRID.

D. Germans with knowledge of Japanese language and affairs:

12. Teachers of Japanese at German Universities: -

- a) Professor Walter DOILT, Berlin University
- b) Professor SCHARSCHAIDT, Berlin University
  - c) Professor KREESLER, Bonn University, Bonn Clemensstrasse. Teacher of Subject.
  - d) Professor CLISEN, Heidelberg University, searce knowledge of language, expert on Japanese economy.
  - c) Professor Dr. SL.VII, University of Vienna.

13. Colleagues of Jubject at interpreter school, co-editors of military dictionary:-

a) Dr. Wolfgang HIEFISCH, Berlin-Zehlendorf.

b) Dr. Frittjof SOH ELIE, Berlin, Monrisonstrasse. Chemist.

14. Graluatos from interpreter course:-

a) Clemens MD/HC - Tetzlar, merchant, has been previously in Japan for the BONHLER steel firm.

b) Wilhelm BREITKREUZ, Berlin, merchant, has been previously in Japan for the. I.G. Farbonindustric.

Ernst HANKOHL, architect. **C**)

von GLINZKY, 1st Lt. Assigned to Attached) abteilung OKV.

Hans KILB, Capt. Assigned to Attachec) abteilung OKW.

Dr. von STECHOW, has knowledge of matters f) relating to Japanese Law, was together with Subject in charge of Far Eastern Division of the Int. Academy for Social and Administrative Sciences.

ARNDT, Capt., son-in-law of Generaloberst g) HARPE, Berlin-Wuensdorf, assigned to Attacheabteilung OKW.

h) Eduard FRISCH, engineer, Prague.

CLEMENT, fnu, Vienna. i)

Dr. MUELLER, Vienna or Tokyo. j)

Dr. FREUDENBERG, Mucnchen-Haar. k)

KRAEMER, half-Japanese, Hamburg

Dr. SAEUBERLICH, Berlin II)

Ingeborg von GRONIU, daughter of the German n) Air Attache in Tokyo.

Eva KRAFT, Berlin, Kaminastrasse. O

Dr. WALS, Berlin, assigned to the research P) department of the Air Ministry.

Dr. MIEBACH, Berlin, assigned to the research **q**) department of the hir Ministry.

BEUTHNER, half-Japanese, Berlin, assigned r) to the radio listening service of the Ministry of Foreign Affairs at the Scehaus, Berlin-Wannsee.

von SCHACK 1st Lt., Berlin, Attacheabteilung S) OKW.

Dr. SCHWINDT, Danzig, Technische Hochschule t) (Institute of Technology)

Major MOSSDORF, Berlin, OKW or OKL u)

HINDER, architect, Berlin, Ministry of  $\mathbf{v})$ Propaganda.

SCHUBERT, 1st Lt. Berlin, adjutant of ₩) the General der Flieger KESSLER who was to be the successor of GRONAU at Tokyo.

20..........

Dr. SCHLEFER, Borlin, Ministry of Propaganda.

-5-

15. Miscellaneous:

a) Profossor Dr. HAMITSCH and Dr. BEUEL, left during 1943 on submarine for Tokyo as interpreters for the military attache.

b). Dr. Joern LEO, Itzehoe, formerly employed in the Japanese ministry for railways, recently in Ant VI.

Frau Dr. WEINERT, Berlin, in Far-Eastern **C**²). division of int VI (evaluation of information)

Dr. BRIUN, Legation Councillor, East Isia d) division chief of the Ministry of Foreign Affairs, now in SILZBURG.

Dr. JIKOB, secretary of Dr. BRIUN.

### Dr. ADLER, Japanese expert in OKW-Chi (Secret Communications division)

Subject states that further information could be supplied by 16. the German-Japanese Society (Berlin, Ahornstrasse 1 or 2) which was directed by Admiral FORSTER and whose secretary was Assessor TROEMEL.

Subject's father, Professor Dr. Willibald KIRFEL, (address: 17. Bad Godesberg, Wiedemannstrasse 37) is a scholar of Oriental languages, Professor of Hindustani and Indology at the Bonn University, director of the Oriental Seminar. Has a thorough knowledge of the Indian circles in Germany and clsewhere and is a close friend of the Maharaja of BARODA.

#### GIS activities in the Far East: E.

Information on Far Eastern affairs reached Germany through 18. the German Consulates and Embassies in Japan, Manchuria and Nanking, in particular through the police Attaches at these places. There also existed a secret intelligence net headed in SHANGHAI by a certain "BORIS" who sent information through the police attache of N/NKING. He was in contact with a cumber of Germans in the Far East who appeared in his messages as sources under the cover names "FRITZ", "EMIL", "LUDWIG", "OTTO". Toward the end of 1944 it became clear that BORIS worked in contact with agents of the Russian Secret Service. He attempted to obtain authorization for conducting negotiations with the Russians for a compromise peace. Subject believes that by now BORIS is entirely under the control of the Russians. He has no details about his person execut that BORIS was said to be chief of the Hitler-Jugend who had somehow remained behind in CHINL.

BORIS transmitted normal political, economic and military 19. intelligence. Some of the more interesting items of information concerned are:-

- Information about secret agreements between a) Japan and Russia concerning promise of nonintervention by Russia in spite of the denunciation of the Neutrality pact.
- Information about Russian ships carrying arms b) and armunition to Japanese-occupied China ports for use against CHILIG's armies. This

information .....

information came through on 2 different counts in the latter part of 1944. (Similar information - concerning Russian promise to supply Japan with tanks in case of a worsening of the Japanese military position, in exchange for a Japanese premise to hand over Manchuria, Korea and even the use of some Japanese Pacific ports to Russia - was given out in BERLIN by Dr. OGA, cultural Attache and member of the Japanese Information Service, and by KAWAHARI. KAWAHARA dismissed the demunciation of the Neutrality Pact by Russia as an insignificant gesture in view of secret agreements between Japan and Russia).

DORIS also reported about the progress of the negotiations between CHUNGKING and YEMAN and about the friction between CHIANG KAI CHEK and Gen. STILWELL. In connection with this, KOISO gave a mission to General UGAKI to come to a compromise peace with CHUNGKING China. UGAKI infiltrated high Chinese officers of the WANG CHING WEI regime to CHUNGKING for negotiations, but the Donald NELSON mission

foiled the plans of the Japanese,

d) BORIS also reported the existence of a secret association under KONOYE favoring capitulation to the Allies.

20. Information from BORIS and from other sources led to the belief at the end of 1944 that peace between Japan and Chungking China was imminent. This belief was based on the following:-

> Rumor that Madame CHIANG KAI CHEK was going to sue for divorce. As she was considered the representative of the pro-American faction, this rumor was interpreted as the consequence of an imminent anti-American move on the part of her husband.

b) Elimination of members of the SOONG family from the Cabinet.

c) Death of WANG CHING WEI in Tokyo which made it possible to unite the NANKING and CHUNKING regimes under CHIANG. In this connection German circles had their doubts about the naturalness of WANG CHING WEI's death, in spite of his long disease.

21. Ever since the second half of  $19l_{4}$ , the GIS was preparing for the eventuality of a betrayal by JAPAN and the possible switching over of the fronts (Russia and Japan vs the Western Powers and Germany). Consequently int VI prepared an informer net for the Far East which was to have three centers:

a) Cap St. Jacques.

b) Kalgan, Mongolia

c). Shanghai

c)

a.)

Except for the selection of some personnel, this plan remained on paper.

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22. In connection with the already reported document on conversation between Russian and Japanese officials in MOSCOW concerning future Russian plans (see para 31), Subject adds that it was obtained by Kommando "ROLLND", one of the special units of Amt VI.

-7-

F. G-2, 5th Army report of Subject:

23. We further reproduce without comment, the following report on Subject conducted by the G-2 Interrogation Center, 5th Army on 4 June 1945. This report is No. 118, CIT. Ref: CICF scrial No 223 referred to in para 5 of our JZX-1647. The following interrogation was written by Capt. KOLISCH of 5th Army.

24. KIRFEL, Harald Dr. (Diplomat). Date and place of birth: 1914, SIEGBORG, Rhineland. Home address: SIEGBORG, Kaiserstrasse 51. Civilian occupation: Law student, German Foreign Office Liaison Officer (Administration) at GASTEIN. Party affiliation: SA since 1932. He joined the party in 1934. Does not remember his number. GIS career: In March 1940 Subject joined ABWEHR AMT III, BERLIN. Owing to his excellent knowledge of Chinese and Japanese he was assigned to the Far Eastern Section of the AUSLANDSBRIEFPRUEFUNGSSTELLE. This was a subsection of the Censorship Department of AMT III, responsible for collating, evaluating and editing information obtained from censorship. Subject's CO was Maj. Dr. THURNAU who was later promoted to Lt. Col. and placed in charge of the censorship Department of AMT III. Subject handled all important consorship extracts from letters written by Far Eastern nationals from all over the world. These letters were channelized through the Far Eastern Section of the Censorship Department in BERLIN which passed on the relevant material to Subject.

25. In September 1940 Subject was transferred to the interpreter school in BERLIN and, after passing examinations in Japanese and Chinese, was made instructor in these languages with officer status. During this period he prepared a comprehensive Manual on the Japanese Armed Forces (including the Japanese Intelligence Services) for the use of students at the interpreter school and for German officers who were attached to the German Military Attache's Staff in Japan. The latter were also trained by Subject. Information in this Manual were obtained partly through German Secret Intelligence sources in Japan and partly from Subject's own numerous contacts with Japanese officials in EERLIN.

26. In October 1940 Subject was transforred to the Far Eastern Section of the Academy of International Social Science. Professor HOEHN was in charge of this section. His deputy was Dr. SATO, councillor to the Japanese Embassy in BERLIN. During this period, Subject contacts Maj. WEIHRAUCH of AMT VI of the RSHA and sold him the idea of setting up an anti-Japanese Offensive and Defensive Section which would come directly under AMT VI. The work of this section would have been: - (1) To obtain all possible information on the activities of Japanese nationals in GERM/NY and the occupied territories; (2) to obtain political intelligence on JAPAN through contacts with Japanese diplomatic and other official representatives, and through agents in GERMANY especially selected for this kind of work; (3) to recruit and organize a network of agents and informers who would subsequently be sent to operate with radio communications in INDO-CHINA, CHINA, YUNAN and THAILAND. The department was created as a result of objective appreciation of JAPAN's long term cynical policy which aimed at complete exploitation of GERMINY, so long as this was possible, for her own innediate war ains. Subject states that as of the end of 1943 all plans made by JAPAN were based on the assumption of a . . . German collapse.

• •

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. 27 .....

27. Subject continued to work at the Academy of International Social Science (Far Eastern Section) as a cover for his intelligence work and also because it provided him with useful contacts.

28. In October 1944 Subject was appointed by the German Foreign Office to be administrative Liaison Officer to foreign diplomatics (in particular representatives to Far Eastern countries) lomatics (in particular representatives to Far Eastern countries) who had been evacuated to GASTEIN in AUSTRIA from BERLIN. At GASTEIN he continued his intelligence duties reported to AMT VI in BERLIN by courier. He accompanied two Japanese diplomats to in BERLIN by courier. He accompanied two Japanese diplomats to MILANO inmediately prior to the German collapse and surrendered there to the Allies.

29. Subject worked in collaboration with Dr. KLASSEN, Professor at HEIDELBERG University, a Japanese scholar, who had spent a great deal of time in the Far East. Working under the Subject's direction were the following volunteers (VAU-LEUTE) and paid agents:-

#### VAU-LEUTE

a) TRANF ANTRON b) VIN MUC c) VIN WING Indo-Chinese with contacts in the Japanese Embassy. They were to have formed part of a special espionage network in JAPAN which. JAPIN Fobru Fobru roson short fight HAMBI surro and R

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c) VIN WING (a) a special espionage intervence of the subject for service was being organized by the Subject for service in the Far East; all of them were anti-Japanese. They should still be in BERLIN.
 d) LEO, Dr. A German with considerable Japanese experience.
 c) HERZFELD, Frau Dr. Both had considerable social contacts with Japanese and other Far Eastern circles in BERLIN.

### PAID AGENTS

g) MAYOR, Miss Alla White Russian, worked in the Manchurian Embassy, mother was murdered in the Russian Revolution, her father escaped to JAPAN, but was handed back to the Russians by the Japanese. She may still be in BERLIN.

h) TOTSKY,Ilona Estonian girl who had contacts in the Japanese Embassy.

i) German girl Subject cannot remember her name. She was Chief Secretary to the Japanese Attache.

30. All the above agents had their own network of informers, details of which are unknown to Subject. Besides these, there were also some unwitting Japanese sources classified as "I-LEUTE" by Subject. Subject's section also carried out special operations on the Japanese diplomatic premises which consisted of removing, photographing and then replacing documents of military and political interest. Such operations,

which of course effected a great deal of information, details of which Subject is prepared to give, were obtained through friendly "inside contacts".

31. Subject spoke of a document removed (he does not know how) from a Japanese official, and passed on to him by ALM VI. It described a meeting of JAPANESE and RUSSIAN officials in MOSCOW in January 1945 at which the Russians clarified their foreign police in respect to JAPAN and the Western POWERS. They stated that their immediate aim was to occupy as much of GERMANY as possible, including, in particular,

the .....

the industrial areas of MAGDEBURG, DESSAU, KASSEL and all the RUHR province. They would then exploit German technical experience to build up the present deficiencies in their own armed forces, particular precision instruments, instruments for use in their Air Force, etc. Only then would RUSSIA be in a position to declare war on the Western Democracies and assist JAPAN in the Far East. This document was, according to Subjoct, dated February 1945.

-9-

Subject stated that HAMBIER, GHANDI BOSE'S FREE INDIA rep-32. resentative in GERMANY has informed him that he had been ordered by BOSE shortly prior to the collapse of GERMANY to instruct FREE INDIA soldiers fighting for Germany to surrender to RUSSIA and not to the Western Allies. HAMBIER added that arrangements had already been made for himself to surrender to the RUSSIANS as a result of secret agreement between JAPAN and RUSSIA.

Comments and Recommendations:

33. It would seen that some form of Anti-Japanese Section of the RSHA did actually exist. It is difficult, however, at this stage to gauge how far Subject has exaggerated the scope of his own activities in order to give hinself a "build-up". The possibility that the relations have been invented on the basis of directives issued him prior to the collapse of GERMANY cannot be overlooked. The presentation of the facts certainly is in keeping with Nazi Propaganda Technic.

#### IND

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# -1 - TICOM/I - 103

#### TOP SECRET

SECOND INTERROGATION OF REG. RAT HERMANN SCHERSCHMIDT

OF PERS. Z S AUSWARTIGES AMT,

- Lopen to H.C.S.G. 25/9.

ON TURKISH AND BULGARIAN SYSTEMS.

Attached is a report on an interrogation carried out by Major BUNDY at the U.S. 7th Army Interrogation Centre, on 29 August 1945, covering Turkish and Bulgarian Systems solved by Pers. Z S.

See Ticom/I-63 for previous report.

TICOM

19 Sept. 1945

No. of pages 4

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### Introductory:

It had been requested that SCHERSCHWIDT should do a complete written paper on his work on Turkish and Bulgarian systems. As his eyes, after a recent operation, do not yet permit reading, the subjects were covered by interrogation instead. His memory is sketchy on many points, but it seems unlikely that a written account based on further recollection would add much substance to this account.

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Festing Resounds Act

### 1. Turkish systems

a) Diplomatic.

The Auswartiges Amt did not work on Turkish at all until 1934. S. believes that there was in fact very little Turkish traffic until after the MONTREUX Conference in that year. He had worked on Turkish in 1920 and believes that the codes remained basically the same (alphabetic, with Arabic lettering) until 1934.

1934 - early 1935. The main system in this period was a set of 3 4-digit codes used in monthly rotation. The codes were alphabetic within any one initial letter, but the order of the letters was scrambled. The codes were rarely used without encipherment by a

section, while SCHERSCHMIDT himself concentrated on book-building and translation, occasionally checking the work of the girls in case of difficulty. Book-building and translation were fairly difficult, because of the use of the Arabic lettering and because SCHERSCHMIDT himself was only learning Turkish as he went along.

The auxiliary system, used for less important traffic, had a single code, completely unalphabetic. Though theoretically more difficult, the code was used about half the time without encipherment and was built up accordingly, aided by one or two isolated cases of reencodement from the main system. The encipherment system, when used, was the same as for the main system and was solved in the same manner.

The two systems covered all the main diplomatic links. S. believed that there were other codes used for isolated links, as RIO DE JANEIRO and BUENOS AIRES, but there had never been enough material for a solution of these.

1935 - 1939, In 1935 the Turks switched abruptly to the latin system of literation and issued a new main system consisting of 3 codes used in monthly rotation as before. The old set of three Arabic-lettered codes was made fully alphabetic and was used as an auxiliary system for consular traffic.

### - 3 -

TICOM/I-103

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SECTION 3(4) OF 1

PARTY ENCLOYED

the same solution technique was used as before. The code was at

The basic set of latin codes remained in use until 1939, when S. left the section. The codes were scrambled by sections in 1938, but the thread was quickly regained.

1939 - 1944 S.'s knowledge of the period is vague as he handed the section over to BENZING in 1939. When he wished to return to Turkish in 1943 there was difficulty (though not with BENZING himself) over his status, and he left Pers Z S entirely for a year. S. finally resumed Turkish in 1944, being almost entirely occupied in translation in the last months of the war.

He believes the basic codes became entirely alphabetic in 1939. They were always enciphered, but he does not know the exact system, nor the exact details of solution methods. It is assumed that the basic technique remained the same, and that the stripping was done by the less skilled personnel, while BENZING and one or two others did the harder jobs of book-building and translation. Almost complete success continued.

In addition to the main system S. recalls an unalphabetic Latin-literation code used from SWITZERLAND; this he believes to be an older code which had been compromised. Still another code was used from AFGHANISTAN and beginning in 1944 from GREECE. At first this was not enciphered and the book was built up to enable solution of later enciphered AFGHANISTAN traffic.

2. Turkish systems

b) Military.

While the Auswärtiges Amt did not handle military traffic habitually, the Turkish military traffic was made available to them, and they tackled it when time permitted.

The first solutions were achieved in 1936-7 and continued until 1939, although there was very little traffic in this period. The code was 5 Z, and was sometimes enciphered by a primitive method taking only one or two digits of each group and leaving the rest unchanged. Solution was aided by a common "General Staff" address which came to four groups in the new Latin literation, and by one case of a direct reencodement from a message sent in the diplomatic code.

After 1939 a new code was introduced, and S. is unable to give any details of BENZING's work on it. He has the impression that

spasmodic success was achieved, but the bulk of the work on this was done by OKW. (The OKW section was headed by REG. RAT Dr. LOCKER, and had more people than PERS. Z S. S. had a low opinion of the linguistic ability of the OKW translators, and did not think the results were in proportion to the numerical difference. He believes OKW had considerable success with Turkish military systems.)

3. <u>Bulgarian Systems</u>. S. stressed that this was not his main job and was done largely on a spare-time basis. Before 1938 Bulgarian work was not considered important at all, and only a few

25) 10

scattered efforts were made. S. went to work on it in earnest only in the Summer of 1941.

- 4 -

TICOM/I-103

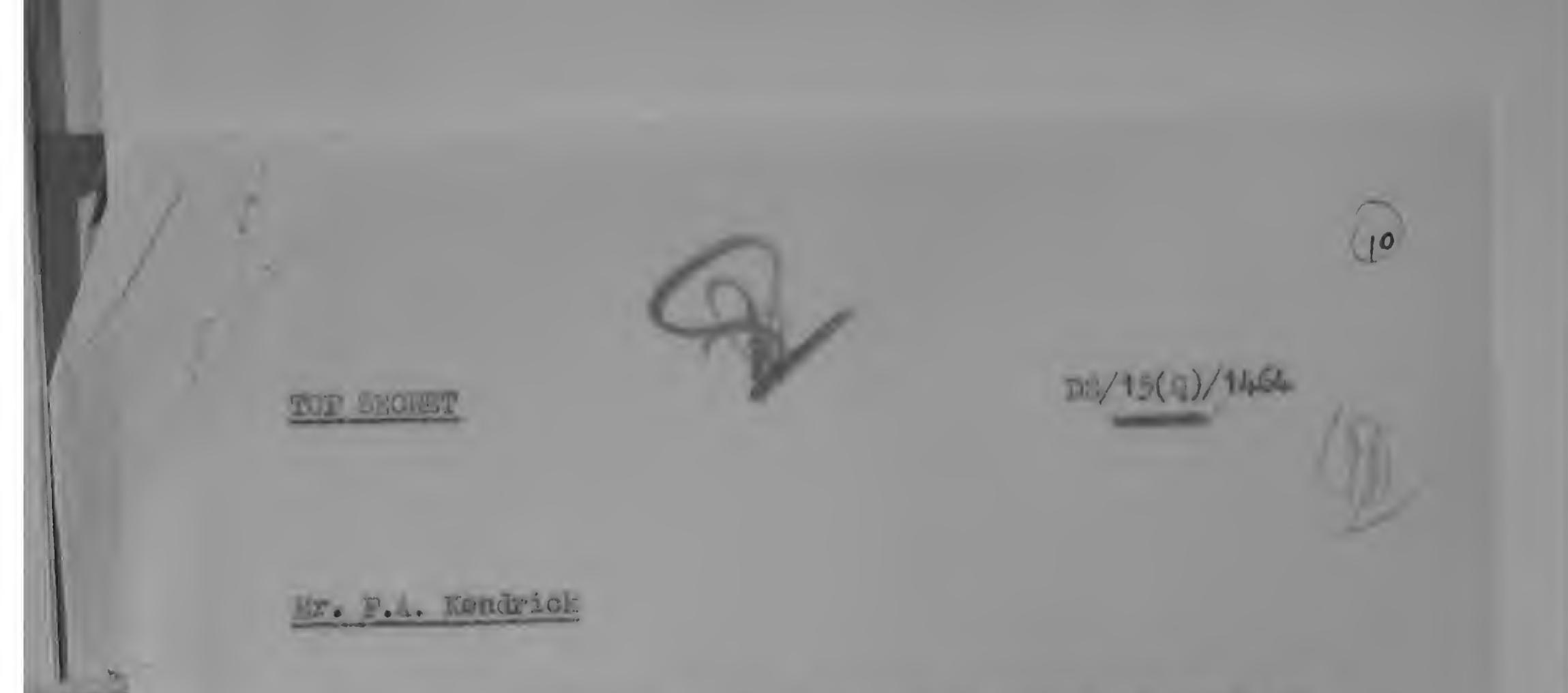
The main system consisted of two basic codes, used on the same links for material of different security importance. The codes were 5 Z, with about 20- 30,000 actual values before 1939, and 30- 40,000 thereafter. The basic code was changed once between 1939 and 1944, S. thinks in 1941, and the former top security code then became the auxiliary system.

Except for one 2-3 month period the codes were not enciphered. Up to 20 links were served by providing a different pagination for the code twice a month on a single link. Within the pages the values were written in a cyclic alphabetical order, but the cycle might start in the middle of a page and run backwards or down and then up, or in a variety of ways.

Solution depended entirely on the amount of traffic. Any major link could be solved at will if the effort could be made, and in fact from 1943 on all major links were read. The basic code had been completely recovered by that time and the pagination could be built up correctly, with the aid of "Reference", numbers, special names, and lettered values which gave very common groups. The chief difficulty was to break the additional special pages provided for the use of each link, with personal and geographical names. As a whole solution was never a difficult technical operation.

S. knows nothing of Bulgarian military systems.





With reference to the attacked decourter, I would be grateful if Thornett, or anyon: el. concurred, could provide no with a questionnaire for KIRFIL.

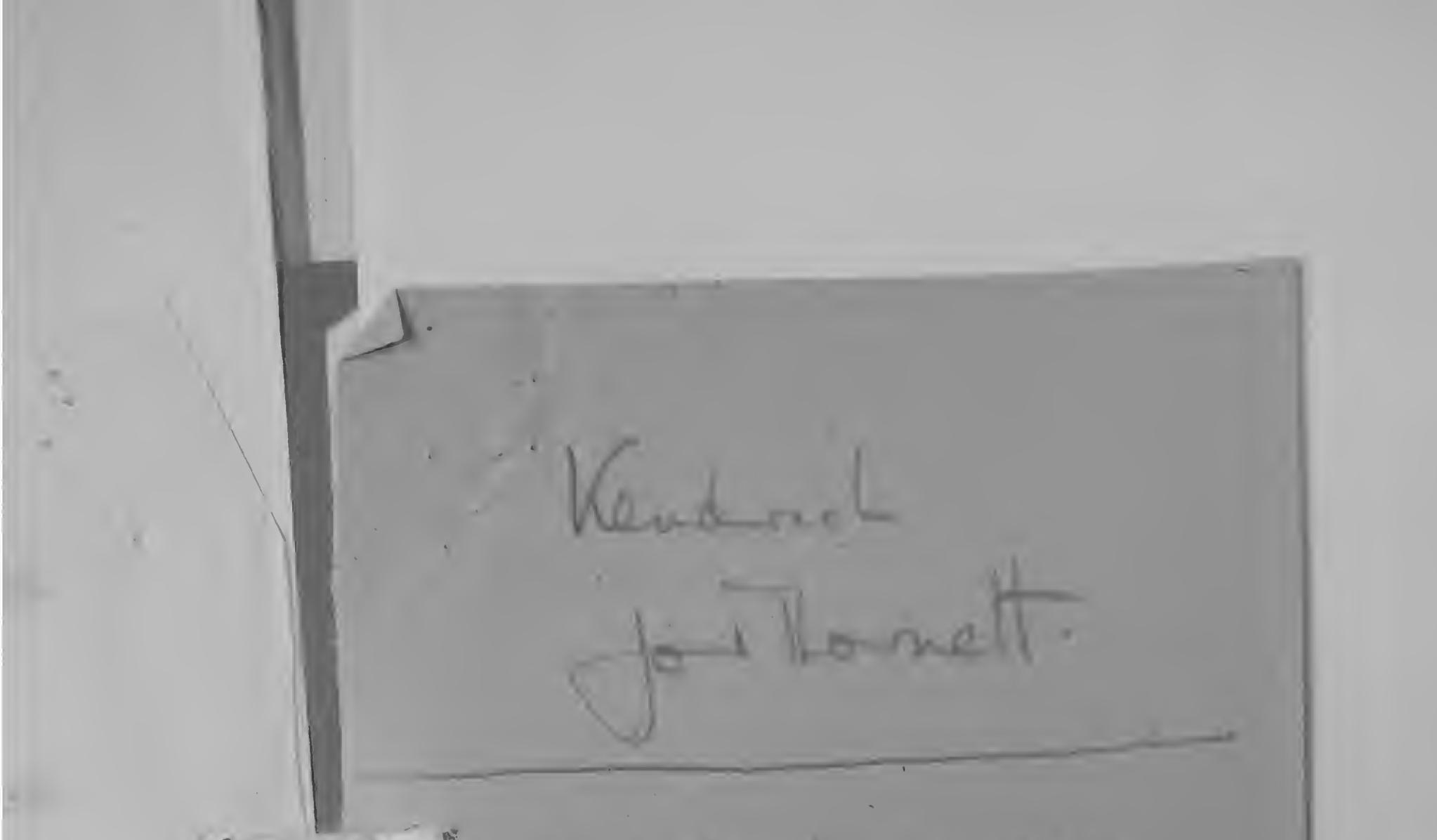
major Seaman has suggested the following question 1-

- (1) That other Japonese crypto materials were lifted 7
- (2) That success did German cryptonalysts have with Jap Systems ?
- (3) Describe fully the Japonese monimum mentioned para 10. Could Commans read the monimum messages ?

ould you please return the molesures in due course with your reply.

15th 20 Amber, 1945.

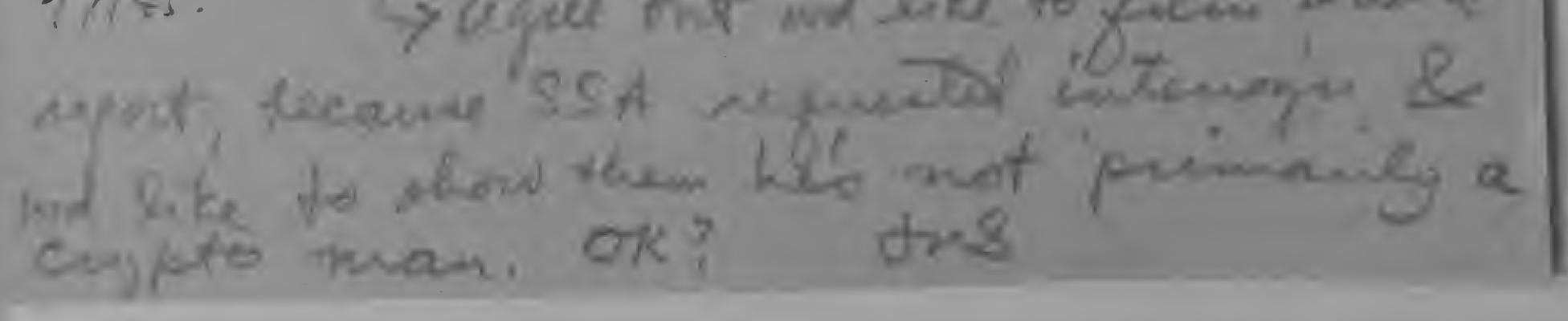




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Mon D.O. Forwarded, 9think this report (on extracts) Should be issued in the I. Series. I will have to reply to the second para JIF7's minde M 30.8.45. Ste 2.9.45.

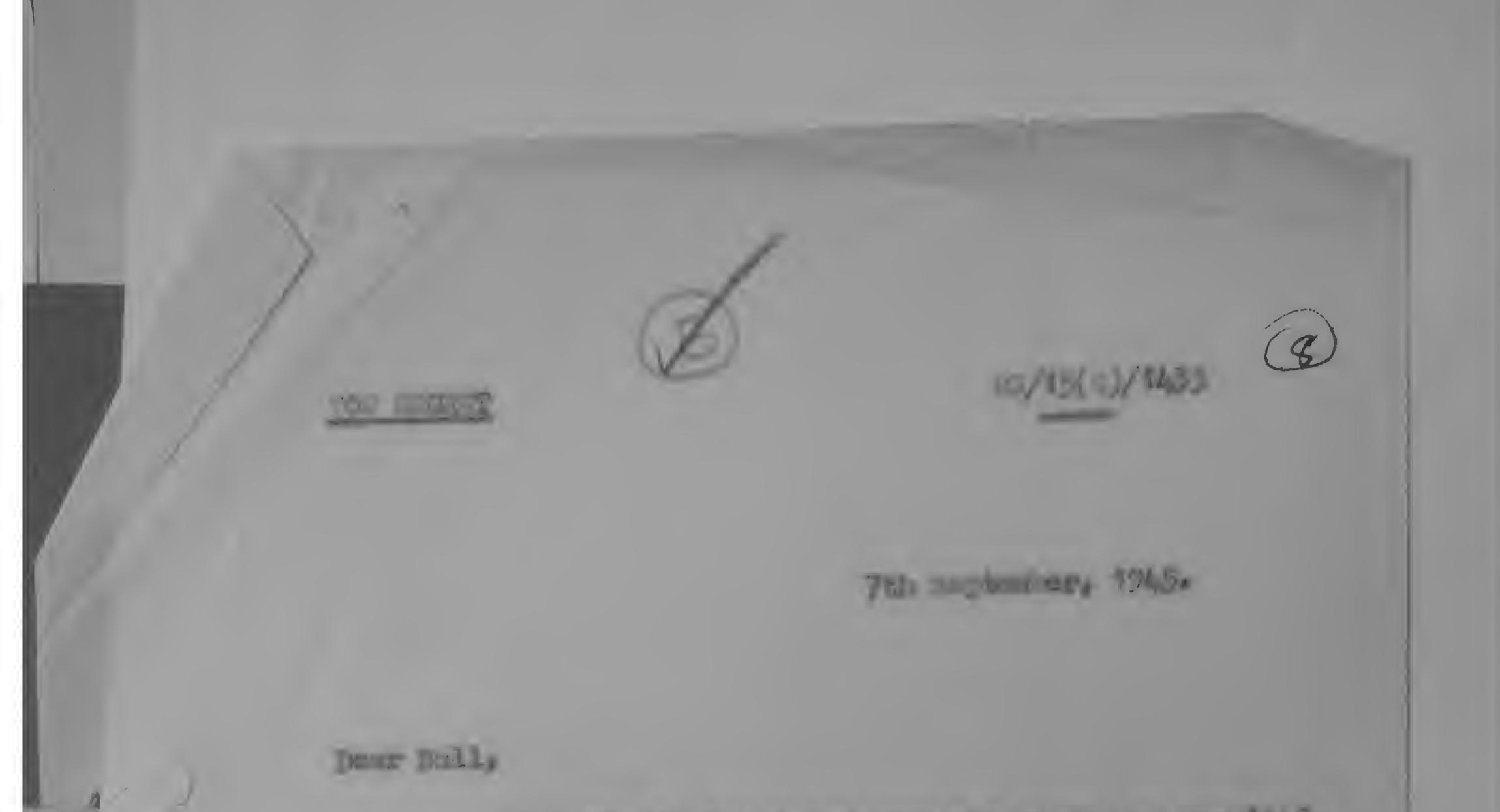


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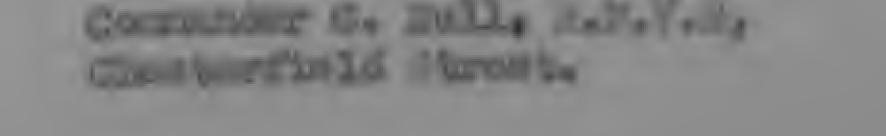
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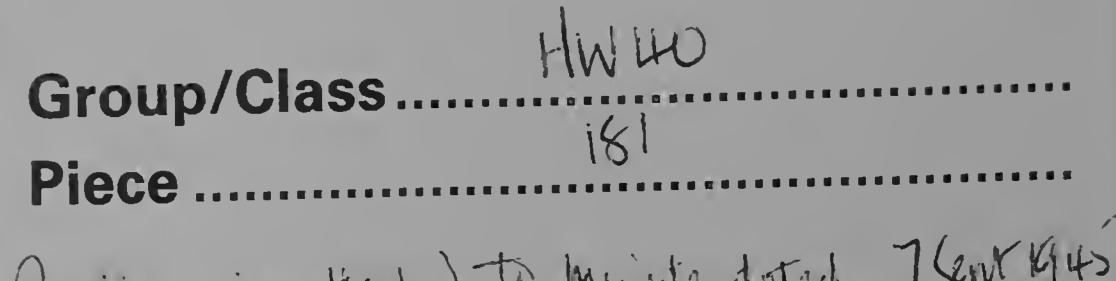
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Questionnaire attached to minute dated 75ept 1945 revained under \$3(4) Stile PRA 1958

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Minute dated 2 Sept 1945 revailed under S3(4) & the PRA 1958

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Why to J. D (CSA) 31/8

11.1012-16

Attached are translations made by SSA of Annual Progress Reports by Fers. 2.8. covering 1927, 1941 and 1942 and bearing the following titles:-

- 1. Progress Report of the Group England and the Spanish and Portuguese speaking countries. Aug. 8, 1927.
- 2. Annual Report for 1945 on the Group Hritish Empire, Thailand, Portugal, Spain, Latin-America.
- 5. Cryptographic fork in the Group Great Britsin, Sism, Fortugal, Spain and Latin America - Hagen 1-2-42

4. Annual Report for 1942 on the Section British Empire. Ireland, Thailand, Portugal, Spain, Latin America.

# 28 August 1945

TOP SECRET

No. of Hages 20

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of the Group Progress Report the Group Priglam: and the Spanish conlorbuguest Spanling Countries

## August 8, 1927

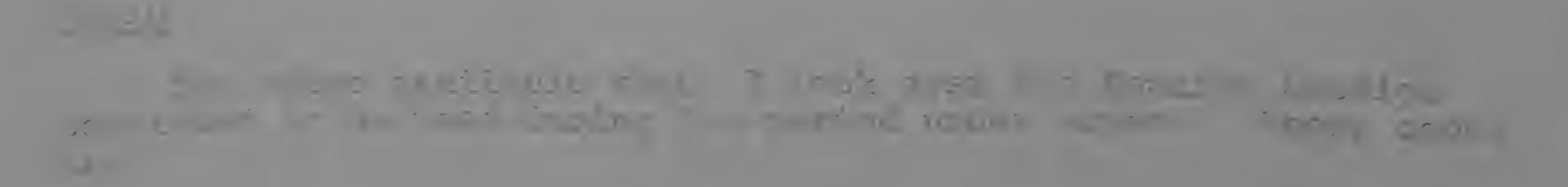
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TOPSECRET - 2 -

04 225 253 261 301 311

Un the basis of incoming telegrams these could be further perfected and in part corrected so that now all incoming telegroms are read almost in their entirety.

Spanish codes have developed only very slowly as completely

elphabetle codes. The size of the new as well as of the old code is always lu, uu groups. The cleast which are still in use are still being transposed alphabetically within the individual pages and the page numbers are transposed. In the case of the more recent codes the page numbers and the line numbers are transposed. The vocabulary of the individual pages always remains the same. Once we succeeded in determining the page n mbers of a new code there were only 100 possible meanings for each group. The meaning of the individual group is therefore much easier to determine. In all Spanish codes the last two places of each group are read first. In June, 1927, a telegram was noticed in code "00" which was relayed some days later to another office in a slightly changed form in code "04". In this vay it was possible to determine some 50 groups. Since then we have succeeded in determining almost all the page numbers of the code. The content of the tellegrams consists chiefly of reports on shipments of weapons and on suspicious persons. Further intensive work will be required for the development of the code.

## Argenting

Only one code is used for Argentine tolegrams. The code is crranged alphabetically and the major part of the vocabulary is in the general section, at the close are the following special sections: spelling table, dates, numbers, year dates, list of Densi, list of mattions and ditles as well at a list of Argentine diplomate. In spile of the systematic alpha structure of the code, a complete solution of the colegrant calls for a great Leal of effort strue the code is entremely cliquelansive and offices many compound forms. The main vocabulary of the sude compliance 49, you proupe to which the added the above never lists as that the total subert of the code runs over 101,000 groups. Work was begun in 1927 and the code is now so far salved that incontag velegrems can be read roughly, although not single COM NICICI,

saining the first of fastary in 1926 the musber Luu ves addes to cada 5-place group and must be subcractic before de-Chilling .

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TOPSECRET - 3 -

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be completed successfully within a short time. It developed that the previously used and already solved systematic 5-letter code with 26,500 groups was still being used. Only the first and last two letters of each group were being transformed with the aid of a digraphic substitution table. The table was quickly solved and the telegrams read once more.

#### Ecuador

1.1

Since the end of 1923 an exchange of telegrams between the Government of Ecuador and its representative in Berlin has been observed. The telegrams consist of non-pronounceable 10letter groups. In the autumn of 1926 we began work on this traffic and it appeared that the division of the cipher text into 10-letter groups was purely arbitrary. For encipherment a code is used consisting of 2, 3 and 4-letter groups which, after conversion, are run tegether and transmitted in groups of 10 letters. The division of the groups is recognized by the vowels since the first letter of every group is a vowel, while the other letters of the group are consonants. The code is not in strict alphabetical order; solution has progressed to a point where all infeming telegrams can be read entirely.

### liexico

Telegraphic traffic of the Mexican Government with its representatives abroad is entirely with the aid of cipher systers; no code is employed. When work was begun in the autumn of 1926 it came out that Mexico in the previous years used the same key for rather long periods. Not until 1926 did they begin to improve their cipher system by combining 5 alphabets of a 26alphabet table to form a key which would be used for several days, and finally in 1927 they began to use a separate key for each telegram. The system itself consists of a 5-place Caesar, i.e., the text to be enciphered is divided into groups of 5 letters and then the first to the fifth letter of each individual group is enciphered by a particular substitution alphabet. For transmission, two groups are combined, hence, incoming telegrams consist of 10-letter groups. As mentioned above, most of the back heys and nearly all the current keys have been colved

## Coronata

Colorbian traffic is enclohered very much like the Mexican with the aid of 5 successive rebritution alguabets. Telegrams on hand have been solved and since the tables are always used for several belegrams, solution of this traffic ought not to cauch any particular difficulties in the future.



the Herice and Colombia, Bolivia for its telegraphic trartic uses a cipher system. While the two previously mentioned contries use 5 alphabets, Bolivia uses 10 in sequences. Even though the longer telegrams could be colved, the difficulty inrolved with this system is so great that single telegrams, particularly short ones, cannot be read

TOPSECRET

## TOPSECRET. 4-

In regard to cryptographic technique, Peru is the most advanced country of all those in Central and South America. In telegraphic traffic a 5-letter code with pronounceable groups is used which contains 10,000 to 20,000 values. Due to the extremely scanty material, 45 telegrams in 7 years, any attempt to break the system appears futile. If, in the future, more material should come in, this code should be soluble without too great difficulty, thanks to the great help afforded by the transmission of proper names by spelling system.

#### Uruguay

Peru

The telegraphic traffic of Uruguay is likewise so slight that no work is being done at present. Without further investigation we dan say that, with more material, success could be attained without too great effort since it is merely a 2-digit encipherment employed with a short code.

## Portugal

The Portuguese Government uses for telegraphic communication with its representatives 5-digit codes of 60,000 to 70,000 groups. In the autumn of 1926 we began working on Portuguese material. As formerly, so today, with Portuguese codes, the last three digits of the 5-digit code group are to be read first. It was ascertained that for each circuit a particular code existed. For the Berlin-Lisbon, Lisbon-Berlin traffic, which was attacked first, it could be shown that this code can be reduced by means of a 1000-place substitution table to a code in use earlier. The 3 last digits of the 5-digit code group, which are to be read first, correspond to the page numbers of the code which have been changed in respect to earlier codes, while the line numbers continue unchanged. When the work had progressed so far that we could recognize the approximate conhead of the belegrams, in February, 1927, a change took place in this traffic. Thether this new code can be reduced by any such measures to the known code has not yet been determined. On the other head, is the case of the code used between Bucharows and Lipbon. this possibility has been proven and if more personnel le spanicule à ropid solution should be puscible.

#### Brazil.

Since farch, 1926, a new code has been first in Decilian broffin. The verie on this, segan is the past few weeks, shows that it is again an alphabetical code constructed very such like the one formerly in use. Is before, the last b digits of the 5-digit group are read likest. The number of (pupe, 94,65t in the old code has been expanded by 5,000 in the new oode, from which we conclude that the expansion of the code has taken place by introduction of new concepts. Solution is wather difficult because of the lack of material (70 messages). Henover, a good skeleton has been obtained for further work in the groups placed.

TOPSECRET

## TOPSECRET -5-

## Conclusion

In conclusion it is necessary to say a few words on the personnel question. Even though in the period under report the codes and ciphers of most of the Spanish and Portuguese speaking countries have been solved, the help available is by no means adequate to develop these codes to the point where all telegrams can be read completely. It is absolutely necessary that in the present status of the work an assistant with a complete mastery of the language concerned be available for each of the two language groups. If this is not the case, then sooner or later things will bog down again and in view of the progressive difficulty of the codes and ciphers, it will not be so easy to get a fresh start once more.

Furthermore, in the future the English materials must be worked on more intensively. The two codes worked on and solved, "Blo" and "Bl2" call for a separate assistant to make possible further development. For the new work (numbers) one permanent assistant is the least we must have.

To make possible further successful work we should therefore need:

For English codes "Blu" and "Bl2" Statistical work Spanish group Portuguese group

Total

Berlin, & August 1927 Ernst Hoffman

4



## TOPSECRET

## Annual Report for 104] on the Group British Engine, Thailand, Portugul, Spen Lotio America

## Englanc

Forked on:

a) English Digit Swatters:
 The "Interdepartmental Fork." The barns one hord of the solution at an end of the solution of the solution at an end of the solution of the solution of the solution of the wave skated at our one would be found the one telegrenes from the Middle Fast could be real count the end of the year the receipts were so light that in ther work of this material no longer appeared worth diffe.

## b) English letter systems:

 "B 25", a non-systematic 4-letter code with 16 224 groups. It wis solved and so far developed that telegrams could be read for a considerable period almost without gap. In the autumn of 1940 a captured original was sent us which made possible complete reading of telegrams.
 "E 22", a systematic 5-letter code with 84,000 groups. It was solved and telegrams have been read for approximately 3 years. In the summer of 1940 we were given a captured original.

3) "B 50", a non-systematic code of 4-letter groups used in the Near, Middle and Far East. Traffic received was ellight, however a beginning was made in setting up an index and the cross sum of the groups as well as the size of the code was determined.

Nor rogized on:

The consular system and Tereriffs-Las Falmas trailin involving transposed stars text, in which boly a few to oppans sare peceived.

South Mirica

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a) "P 22" (Lee England & 2), and

b) "B 23", a systematic 5-letter (coe of agurenzimetally the same size as "B 22" which was colved and so fur worked out that the sure incoming teld music at be real alons of the thout gaps

Not conzection:

A letter system used in traffic with Stockholm, due to want of material. The Last telegram is this type was received 16 December, 1991.

Ireland

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TY I I I E I

-2encipherment table is so used that one 5-place group is replaced according to  $T26_n$ , the following group by T26n 1, T26n 2 or T26n 3 or else T26n-1, T26n-2 or T26n-3. All Irish telegrams can be read completely.

TOP SECRET

In 1941 223 Irish telegrams were read.

·Canada

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Worked on:
"B 22" (See England a 2)
Not worked on:
A 5-letter system in which only isolated telegrams were received.
In 1941 583 British Empire telegrams were read.
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Thailand

Worked on: A systematic 5-digit code in English language with 110,000 groups. For the last 10,000 numerical groups usually pronounceable letter groups of indefinite length are given. A part of the telegrams is enciphered, i.e., there is added to or subtracted from the line number of the groups a multiple of 5 according to an indicator. Telegrams are read almost without gaps. In 1941 97 Thailand telegrams were read.

#### Portugal

#### Worked on:

- a) A partially systematic 5-digit code with 50,000 groups. Encipherment on the different circuits is in the following fashion:
  - 1. By subtraction or addition to the line number of a sum fixed for the circuit concerned.
  - 2. By transposition of the group elements.
  - 3. By 1000-place substitution tables for the page numbers.
- b) A partially systematic 5-digit code with 61,500 groups. It is enciphered with 20 distinct 100-place substitution tables for the line number of the groups and on some circuits also with a 1000-place table for the pages. In addition there is a letter encipherment to avoid repititions, i.e., a 100-letter table for the line number and a 1000-letter table for the page number. Moreover, for each circuit there is a distinct transposition of the group elements.

A large part of the telegrams were read with some gaps.

In Berlin-Lisbon traffic telegrams sent in this code were not read because keys changed so frequently and receipts were so small that only in a few cases did the work yield any

- practical result.
- c) A partially systematic 5-digit code with 61,800 groups with encipherments of the type described in paragraph b. The numerical encipherments were solved and beginnings made in the solution of the code. Because of the slight receipts and lack of personnel for Portuguese, work was not continued. In 1941 66 Portuguese telegrams were read.

TOPSECRET

# TOPSECRET - 3 -

Brazil

Worked on:

- 1. "Bras. Bl", a systematic 5-letter code with 165,625 groups. a) Letter systems The telegrams were read almost without gap. 2. "Bras. B2", a partly systematic 5-letter code with 82,000 groups. After 2,200 groups had been recovered and a series of telegrams read with some gaps, a copy of the original code was placed at our disposal by O.K.W. which made possible a complete reading of all telegrams. b) Digit systems: 1. "Bras. Zl", a systematic code with 100,000 5-digit groups. The telegrams were read almost without gap. 2. "Bras. Z7" and "Bras. Z8". Enclpherment of "Tras. Z1" by means of 1000-place tables for the page numbers and interchange of group elements. The telegrams were read almost without gaps. 5. "Bras. 23", a code with 80,000 digit groups, which was
  - put together from "Bras. B2" by the exchange of the page

numbers and displacement of row digits on a multiple of 10. Work has just begun (February 1942) on the still limited material.

4. A 5-digit probably systematic code with 100,000 groups was enciphered with a table of letters. The 300 pairs of letters occurring in the first and second or fourth and fifth places were reduced by equating to a 100-place table for the first and second and one for the fourth and fifth places and the 26 middle letters (in the third place) have likewise been reduced by equating to a 10-place table. The conversion to numbers proceeded slowly because of the very sparse incoming material. From the 23rd of December 1941 to the breaking off of relations (29th of January 1942) only one telegram of this sort was received. In the year 1941, 248 Brazilian telegrams were edited.

### Spain

Norked on:

A 4-digit, partly systematic code with 10,000 groups culled "ou". The telegrams enciphered in this code in the traffic Madrid-Boyota, Quito, San Balvador, Sofia, San Juan de Fuerto Rico and in part Guatemals were completely read. The remaining traffic was only noted. The traffic Madrid-Berlin full off almost outirely; in 1941 eight telegrams were received

In the year 1941, 34 Spanish telegrams were edited.

Argentina

## Morked on: a) A 5-digit systematic code with 110,000 groups. In most of the traffic there was a change of groups through addiction or ou auburgetion of a constant sun. Occasionsly, also, in one and the same telegrous addition and subtraction were used interchangeably. The traffic was solved and the tolegrous were read and edited almost without gaps.

TORSECRET

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## PC. F.

A private code mich 73,000 groups is enclohered with 1000 and the fire letter cole tables for the pages and row columns an in fragmentic, changing regrouping of the group elements. The incoming delegrams which were both very sparse and uninteresting in content could be real with some gaos In the year 1941 one Bolivian telegram was read.

#### Chile

Horked on:

Al to 4 letter systematic code with 42,000 groups was built up by the autumn of 1940 to such a point that the telegrams were read almost without gap. A photocopy of the captured or-Iginal which was placed at our disposal at that time made possible a complete reading of the telegrams from that time on Not worked on: A very sledom used systematic, 4-letter code in consular traffic (Passport) and a new diplomatic code, on account of the still limited material. Up to this time 12 telegrams have been received since the 25th of August, 1941. In the year 1941, 273 Chilean telegrams were read.

## Dominican Republic

Worked on:

Columnar system (Spaltenverfahren) with 5 126, which is applied to the plain text. Occasionally, also, plain text passages appear in the enciphered messages - the keys were solved and the incoming telegrams were accordingly completely read In the year 1941 one Dominican telegram was read.

## Ecurdor

#### Morked on.

A 2 to 4 letter systematic code with 63,945 groups with interspersed clear text. The code was solved and the nessaged could be completel, lead,

Not worked on

A letter consular system, in which only one telegram way received.

In the year 1941, 25 Equadorian telegrans were read

Colombia

Norked on!

Columnar aystems with 5 to 15 T26, which are directly 20plied to the plain text without any text between. The telegrant which came in at great intervals, were read by the sullition of the current substitution table. In 1941, 45 Molandian messages were read

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From Guatemela, Havana, Fanama and Paraguay the incoming messages are so extraordimently unimportant that not once was it worth taking note of them. From Panama and Guatemala one plain text message was read.

La 1941 from this group a total of 1639 messages vas read.

## Personnel

: Soulco Mead: Miss Hagen Ushikojes on English, Portuguese and in part Spanish: Miss Wernick Cillengue on Spanish: Miss Noll Masistants: Miss Fellbaum " v. Maisenberg " Kleppin Miss Offermann Miss Roebeke " Seele " Titschack

Berlin: 11 November 1942

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Lunslated by Lt. M. C. Lone



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## TOPSECRET -2-

## Argentine,

With a systematic 5-digit code of 110,000 groups on many directits changes in the groups are made by addition or subtraction of a constant.

## Bolivia

A b-aight code of 78,000 groups is enclohered with a 1000of the child-place letter table for page or line numbers and by similannous re-grouping of the group elements. Replacement datus are quive irregular.

## Dominican Regubillo

Sabstitution system with 5 alphabets applied to the plain touch. Replacement quite irregular.

Sidnolo0

Substitution system with 5 alphabets syplind to the plain text. Replacement quite irregular.

## Mexico

According to approximately 100 indicators each group of the systematic 5-letter code is changed into a group lying 1-100 places farther on in the decoding section. Ho change in move of encipherment has been made.

## Peru

As encipterment for the partially systematic 5-letter code digraphic and trigraphic tables are used for the first and second and the third, fourth and 5th letters, respectively. These tables the different for each circuit. No replacement of tables has been made.

## MPULUER:

Flair text interposed between groups of a 1-letter odd are enclosered with a 100-place numerical table, so that for each letter of plain text or for a consonent plue following you'l a 2-digit number is substituted. Frequent endings and punctuation are represented by 3-digit numbers, e.g. 355 = ion. Replacement very irregular.

#### Venezuels.

Flain text introduced between the groups of a systematic 4-letter code is enciphered by a substitution cystem with one to tan alphabets. Moreover, on some circuite the groupe are pushed along from 1 to 10 positions in the cotto. Replacement is quite irregular.

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Fagen 1-2-2:0

TOF ELONE I

## TOPSEN PLINE

ARRIAL REPORT FOR 1942 CN TEL SLOTION BRITISH EMPIRE, INDAND DHALLAND. POLYTGAL, SPAIN THAT IN HUMPICE

## BRIDINE MERINE

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TOFSEORES - - - -

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#### Norked on:

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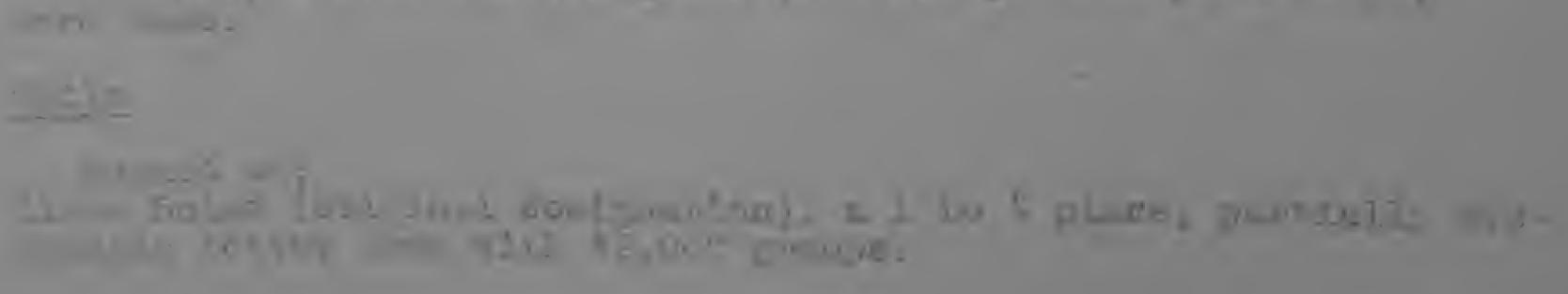
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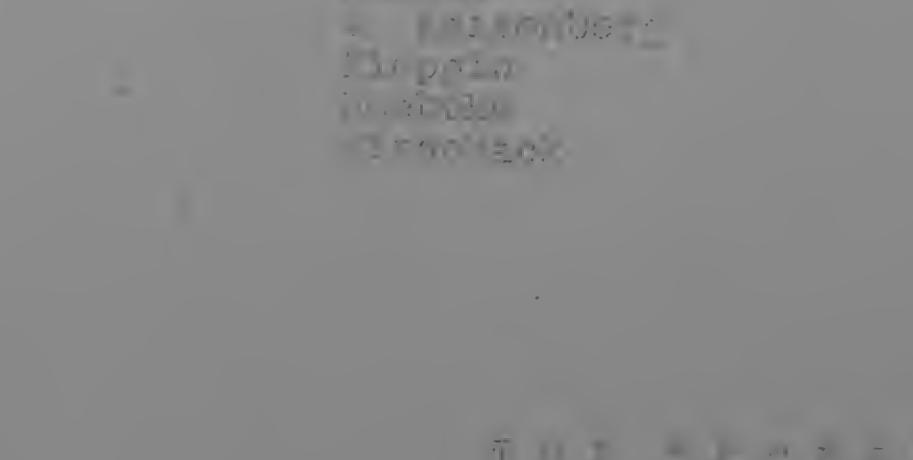
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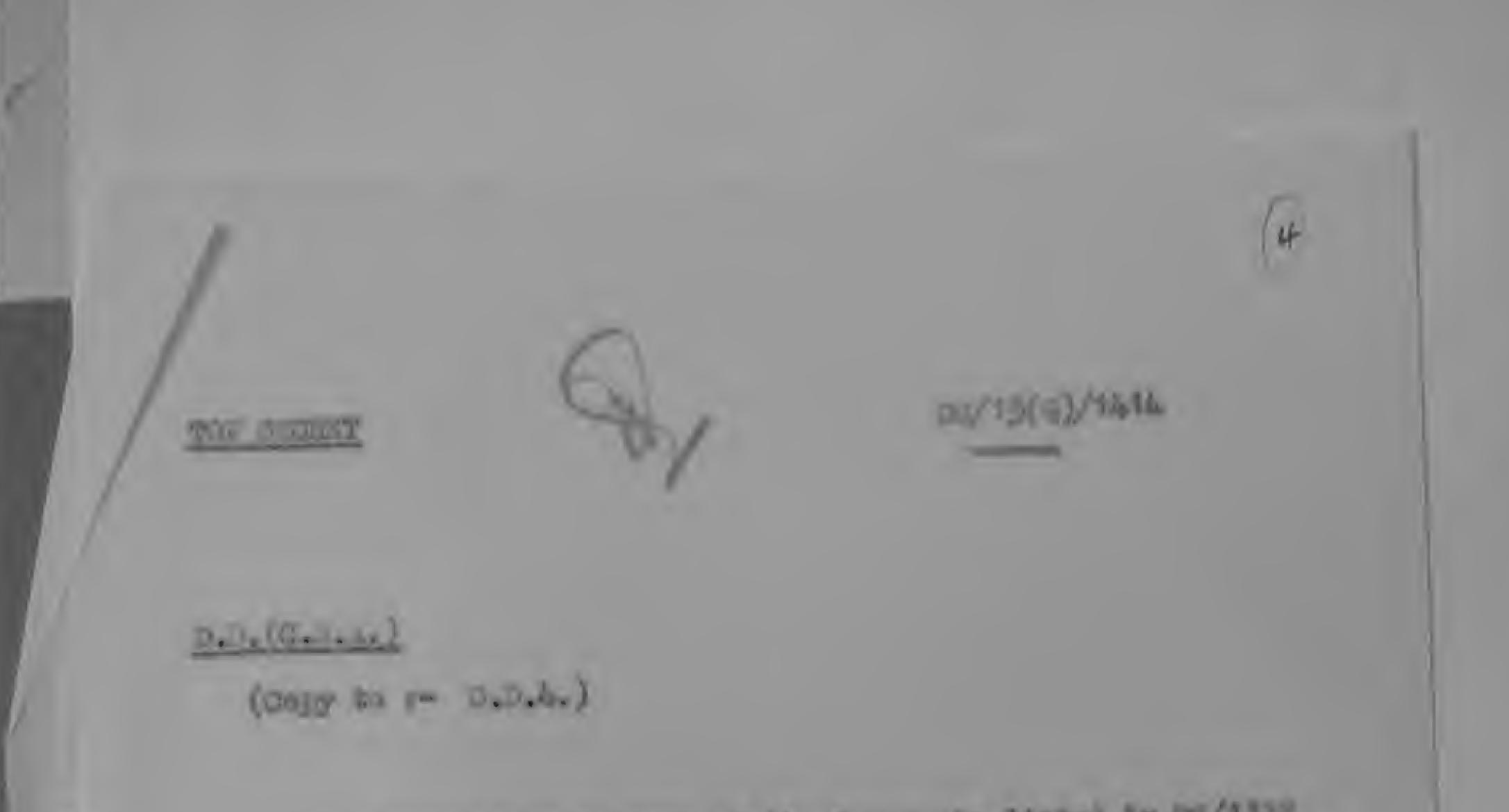
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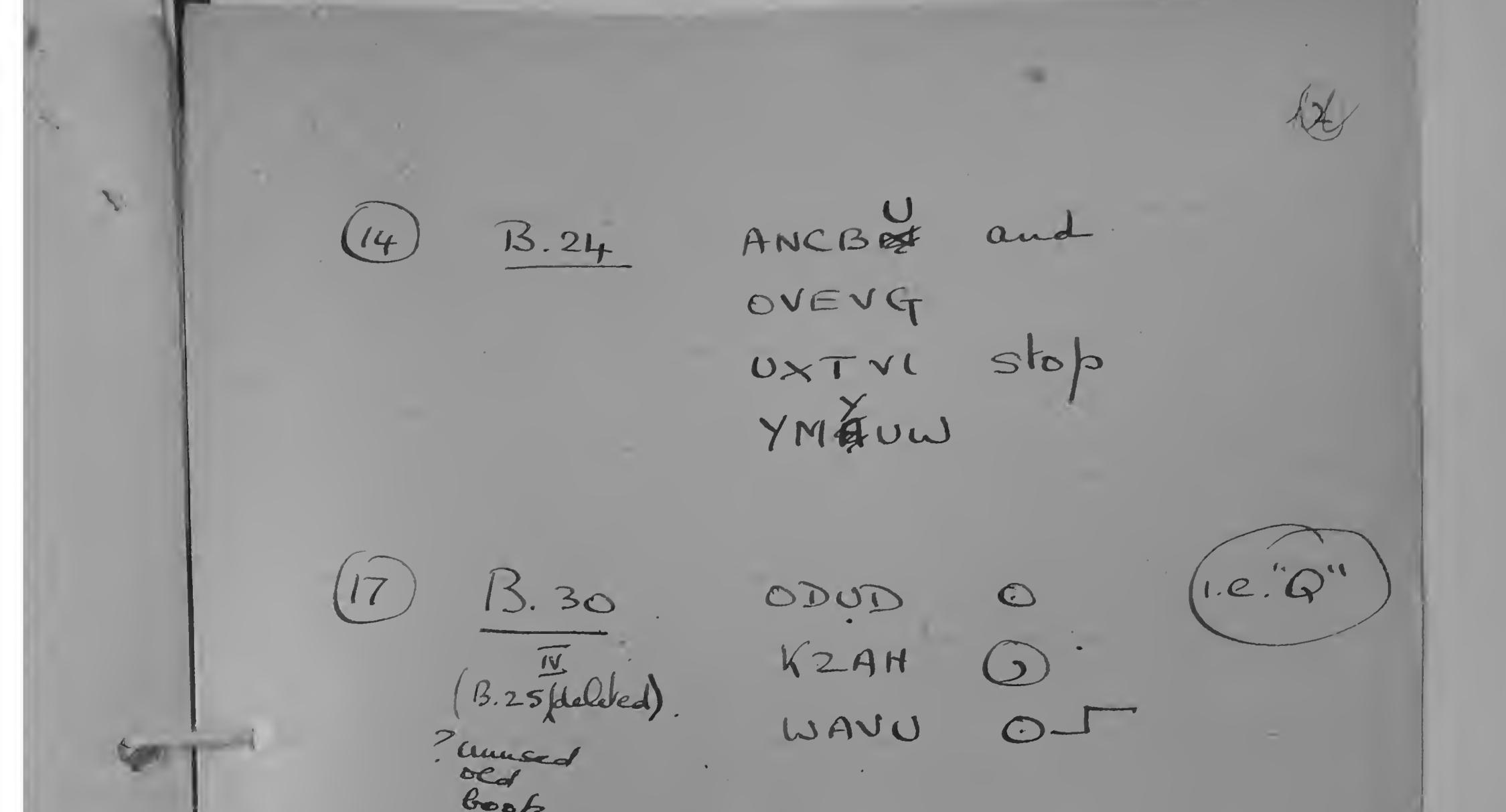
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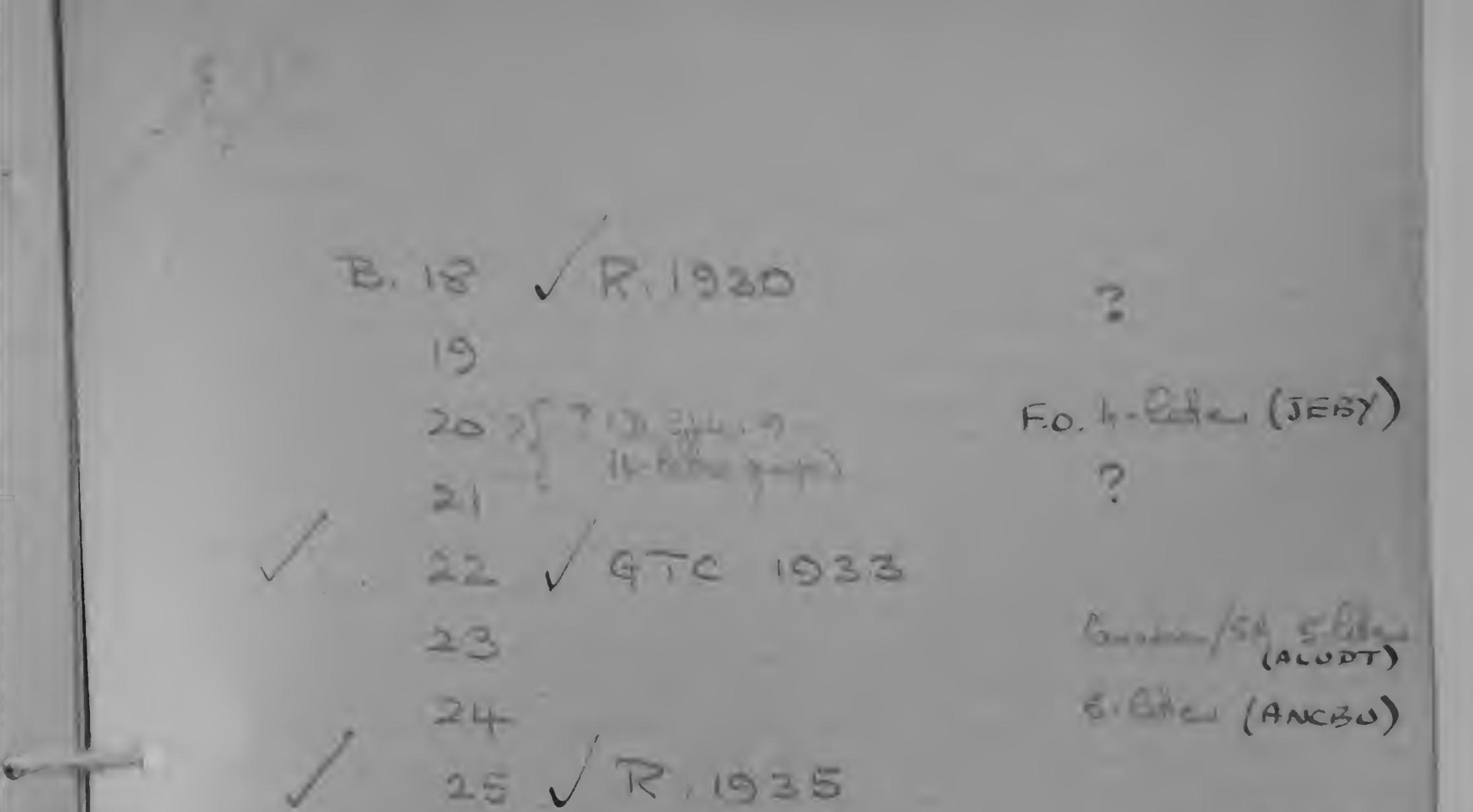


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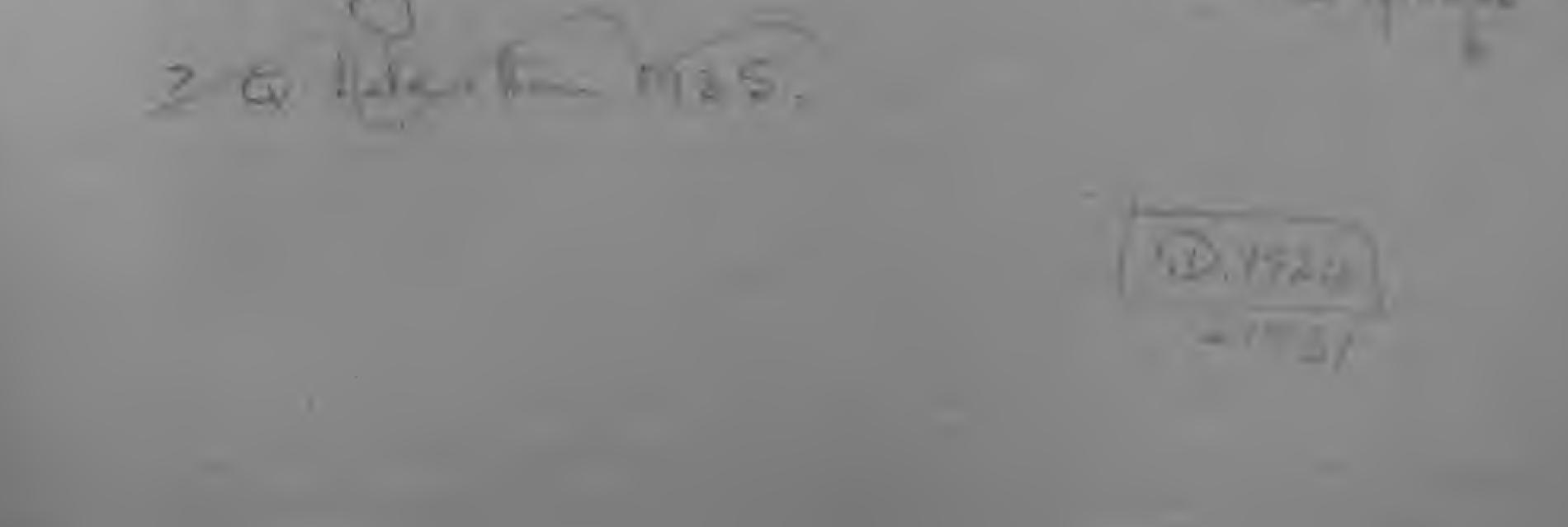
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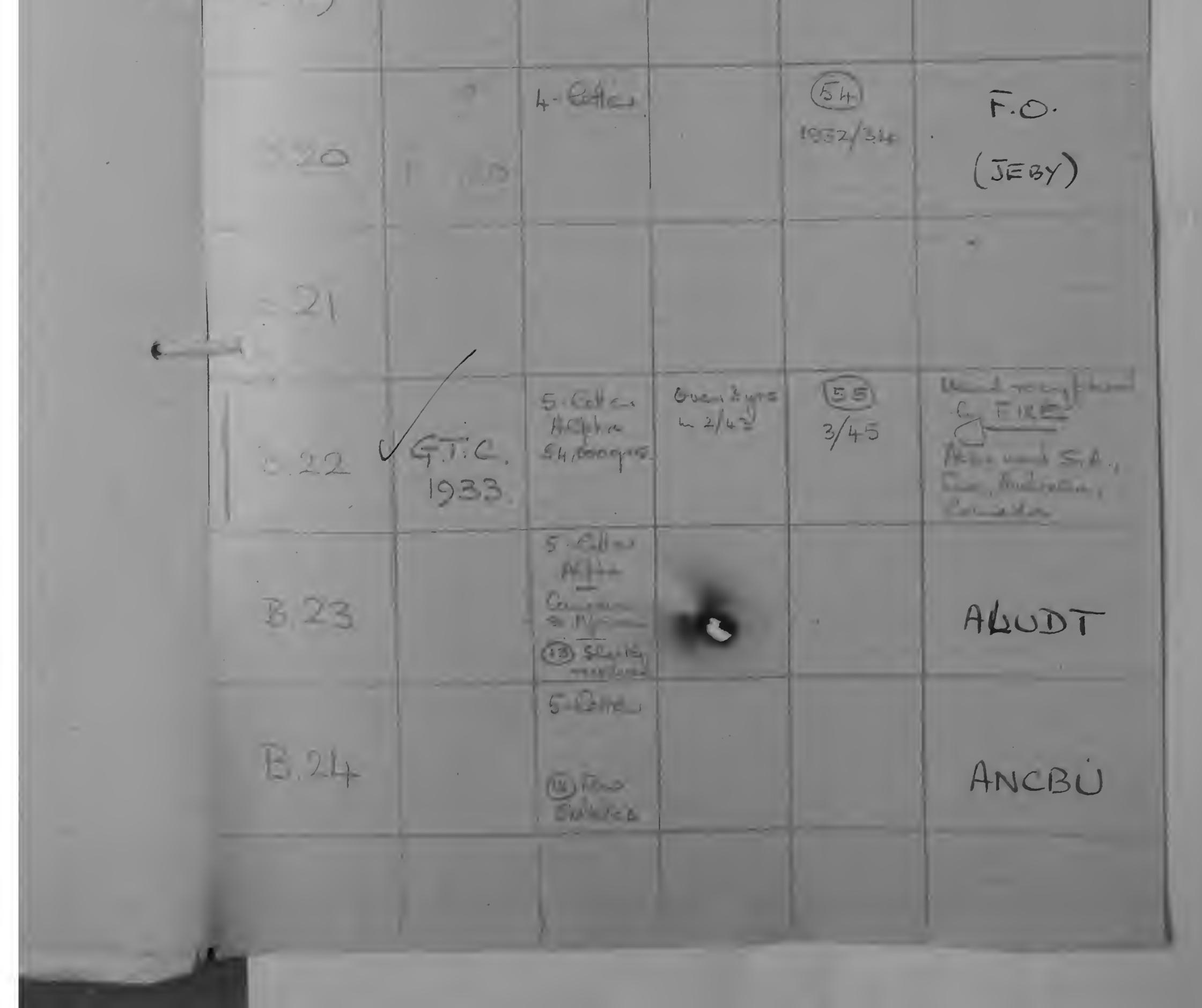




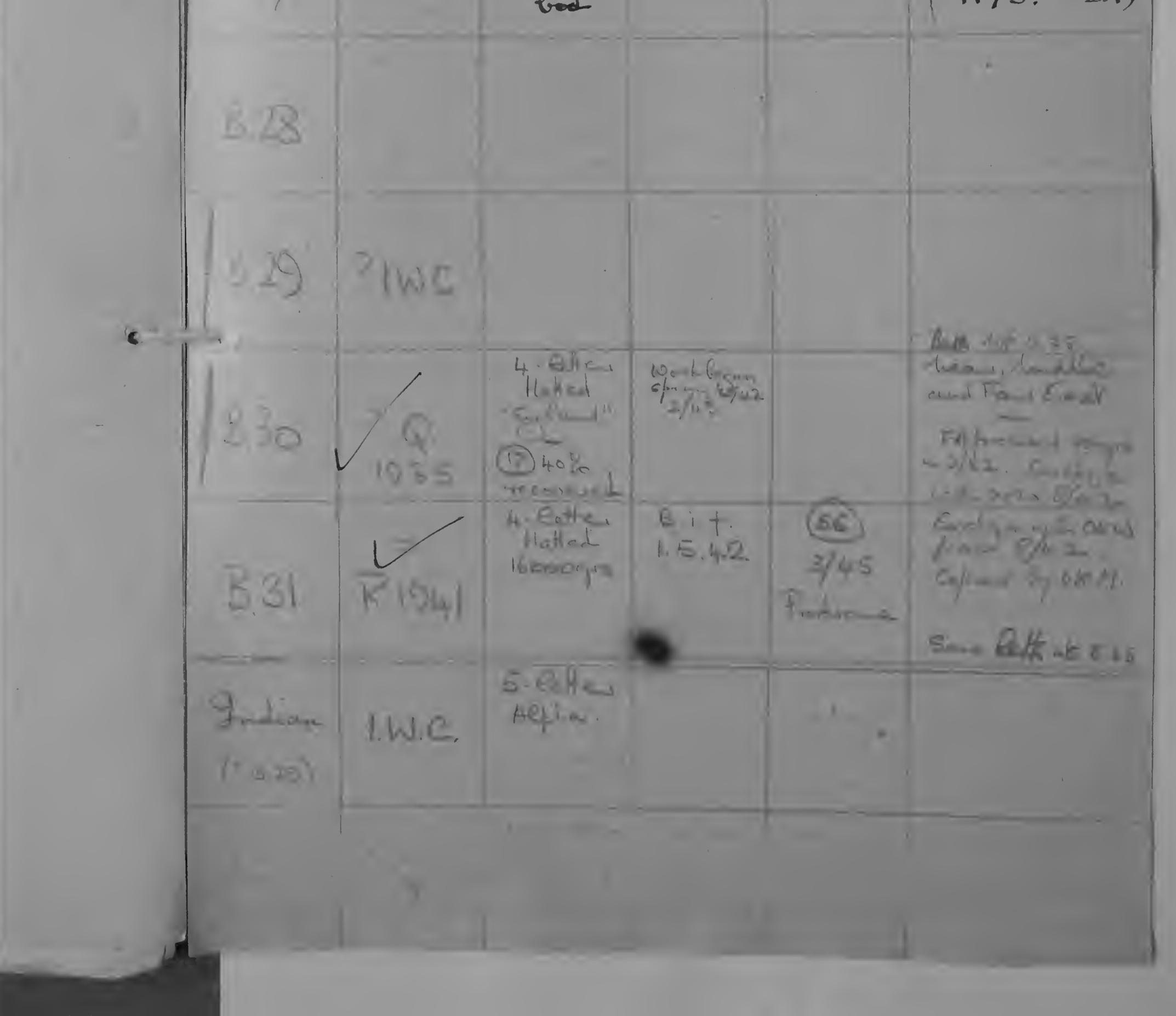
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# INTERROGATION REPORT ON ORR HERMANN SCHERSCHMIDT OF PERS. Z. S., AUSWAERTIGES AMT

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The attached document is a report on the interrogation of ORR Hermann SCHERSCHMIDT of Pers. Z.S., Auswaertiges Amt, by Major W.P. Bundy, AUS and Capt. J.K. Lively, AUS at HEIDELBERG on 1st August 1945. SCHERSCHMIDT is a specialist in Turkish and Slavonic code-breaking.

TICOM 11 August 1945

No. of Pages 4

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Intorrogation Report on Oberrogierungsrat

HERMANN SCHERSCHAIDT

Of Pers. Z.S., Auswaertiges Amt in Reidelouris 1 August 1945

Interrogators: Major W.P. Bundy, Sig. C. Captain J.K.Lively, Sig. C.

1. Circumstances. Scherschmidt was located in the eye clinic of the Heidelberg University Hospital, recovering from a cataract operation. Although weak he was mentally clear and his answers were almost too voluble to permit notes. He was completely cooperative, and his whole attitude was exactly like that of other Pers Z.S. people. He was absolutely scientific in his approach and kept fishing for an exchange of information on the subject, appearing surprised

at the ignorance of interrogators. In sum, a complete academic, of about B analytic powers.

2. Personal History. Scherschmidt is somewhat over 50 years old. Was a student in 1914, became involved in crypt in the Army, and settled down in Pers. Z. S. soon after the war to make this his life work. Except for the period March 1943 - September 1944, when personal differences caused him to transfer to straight translation work in the document translation section of the A.A., he was with Pers. Z.S. continuously until his capture at ZSCHEPPLIN on 26 April 1945.

3. Crypt Specialties. Scherschmidt was primarily engaged in the linguistic side of cryptanalysis, working on pure codes after the encipherment was removed. (The Polish diplomatic problem was an exception, as the two parts of the problem were inseparable.) Scherschnidt claims to have learned Turkish, Polish and Bulgarian in addition to a smattering of English, French, Russian, and Spanish. He was engaged entirely in Turkish work from 1934 to 1939, and in Polish from 1939 to the end of 1942. While in document translation in 1943-4 he worked on Bulgarian books (and found it very boring), and after his return he did translation and supervision of bookbreaking on Turkish codes.

4. Turkish codes. Scherschmidt was not interrogated in detail on his work in Turkish. He said success was very great throughout. In the period 1934-39 the codes were unsystematic (and in Latin at least partially). In 1944-5 the code on which he worked was systematic. with a cyclic additive, and was broken easily.

5. Polish Systems. Scherschmidt worked entirely on diplomatic traffic and was not familiar with military or agent systems or with any successes achieved on them. He had daboled in Polish throughout his Pers Z.S. career and early in 1939 he was assigned to the main diplomatic code of the Folish Foreign Office. This had been in force since 1934, and some unsuccessful research had been done in an effort to ascertain the encipherment used. The problem was given a very high priority in 1939 and Scherschmidt had first class assistance. With the aid of a captured specimen of encipherment and a captured description of the indicator system, the first message was read early

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in 1940. The ocde was recovered gradually, and in 1941 and 1942 all messages were read, most of them currently. The code went out of use in October 1942 and was replaced by a letter code. Scherschmidt did a little work on this at first but did not come back to the problem later. He said the code was never solved, and he did not know details of the attacks made on it by KUNZE and others.

6. From 1935 to 1942 the Polish Government in Warsaw and later in London used a single unsystematic 4-digit code. The consular services used the diplomatic code of the preceding period. In the diplomatic net a separate pair of encipherment tables was provided for each outstation with one pair for broadcast messages. Scherschmidt remembered traffic to the following points from the Polish Government in LONDON: WASHINGTON (very little), CONSTANTI-NOPLE, MADRID, MOSCOW, ROME (the VATICAN) and BERN. Scherschmidt could not recall the contents of any of this traffic except that he did recall much talk on the MOSCOW link of negotiations between SIKORSKI and STALIN at one period. Scherschmidt remarked that the German White Paper on Poland included no traffic broken by his section; he was told that its materials were captured.



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